## **Supporting Information**

# Single Electron/Energy Transfer Photocatalysis: α-/β- Switchable Synthesis of 3-Deoxy-D-manno-oct-2-ulosonic Acid *O*-Glycosides

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## **1** Supplementary tables and figures.



Figure S1. Previous work on Kdo glycosidation by the ionic activation.

As shown in Figure S1, various strategies (6-25) have been developed for the efficient synthesis of  $\alpha$ -Kdo glycosides, including using bulky protecting group to limit the  $\beta$ -face attack of receptors with strong steric hin-drance,<sup>[1]</sup> adding exogenous nucleophile such as DMF<sup>[2]</sup> or (*p*-Tol)<sub>2</sub>SO<sup>[3]</sup> to stabilize oxacarbenium ion, and utilizing solvent and ion effect.<sup>[4]</sup> Moreover, some indirect methods have been published to better achieve complete  $\alpha$ -stereocontrol and less byproduct, such as introducing an auxiliary group (-I,<sup>[5a]</sup> -SPh<sup>[5b]</sup> and -STol<sup>[5c, 5d]</sup>) at C3 position and the conversion from Ko<sup>[6]</sup> or 2,3-ene.<sup>[7]</sup> These indirect ways need more additional steps to construct the special donors and the target Kdo glycosides.

Nevertheless, the researches on the stereoselective synthesis of  $\beta$ -Kdo glycosides (**26-30**) are relatively limited. Kdo 2,3-ene, which was initially applied to synthesizing  $\alpha$ -Kdo glycosides, was otherwise used to construct the  $\beta$ -Kdo glycosidic linkages with AIBN as activator by Mong's group in 2014.<sup>[8]</sup> In 2016, Gauthier and co-workers<sup>[9]</sup> introduced the 4'-methoxyphenacyl group at C1 position as an auxiliary group to generate  $\beta$ -Kdo O-glycosides through an  $\alpha$ -spiroPhen intermediate. Yang's group<sup>[10]</sup> used a Kdo thioglycoside donor with the quinolinecarbonyl group at the C5 position as an auxiliary group to generate  $\beta$ -Kdo glycoside for 1° acceptors through the hydrogen-bond mediation. In 2020, with the effect of side chain configuration and conformation, Crich's group<sup>[11]</sup> disclosed a novel methodology for the synthesis of  $\beta$ -Kdo O-glycosides. Recently, Saha et al.<sup>[12]</sup> used  $\alpha$ - acyloxyhydroxamate as the glycosyl donor to generate  $\beta$ -Kdo glycosides in moderate yields by forming an  $\alpha$ -lactam-like species which could block the  $\alpha$ -face of the anomeric center.



Figure S2. The chemical structures of various glycosyl acceptors S1-S28. S1-S10 are non-carbohydrate alcohols with primary hydroxyl groups, while S11-S14 are non-carbohydrate alcohols with secondary hydroxyl groups. S15 is tertiary alcohol. S16-S20 are sugar acceptors with primary hydroxyl groups, and S21-S28 are sugar acceptors with secondary hydroxyl groups.

AcO OAc AcO $CO_2Et$ <b>18</b> STol (1.0 equiv) Bench-stable solid ( $\alpha$ : $\beta$ 2:1)	465nm LED Umemoto's reagent (1.5 equiv.) Ir[dF(CF <sub>3</sub> )ppy] <sub>2</sub> (dtbbpy)PF <sub>6</sub> (0.04 equiv <u>4Å, N<sub>2</sub>, 12h</u> Cu(OTf) <sub>2</sub> MeCN/DCM = 2/1 <b>S15</b> (1.5 equiv.)	AcO AcO AcO AcO AcO OAda 36οβ	AcO AcO AcO AcO CO <sub>2</sub> Et OAda <b>360</b> α
Entry	Cu(OTf) <sub>2</sub>	Yield <sup>a</sup>	<b>β:α</b> <sup>b</sup>
1	1.5 equiv.	70%	1:1.4
2	1.3 equiv.	77%	1:1.3
3	0.5 equiv.	81%	1:1.3
4	0.2 equiv.	73%8%	1:1.3
5		30% <sup>63%</sup>	1:1.4
<sup><i>a</i></sup> Isolated yields and the supe	erscripts indicating the amount of do	onor regained. <sup>b</sup> Det	termined by <sup>1</sup> H NMR.

Table S1. Effect of the amount of Cu(OTf)<sub>2</sub> on the Photocatalytic Kdo O-glycosidation reaction of 18.

Table S2. Effect of temperature on the Photocatalytic Kdo O-glycosidation reaction of 18.

AcO OAc AcO OAc AcO CO <sub>2</sub> Et <b>18</b> STol (1.0 equiv) Bench-stable solid ( $\alpha$ : $\beta$ 2:1)	$\begin{array}{c} 465 \text{nm LED} \\ \text{Umemoto's reagent (1.5 equiv.)} \\ \text{Ir[dF(CF_3)ppy]_2(dtbbpy)PF_6 (0.04 equiv.)} \\ + & & & & & & \\ \hline & & & & & & \\ \hline & & & &$	AcO AcO AcO AcO AcO AcO AcO AcO AcO AcO	AcO OAc ACO AC ACO ACO AC ACO ACO ACO AC ACO ACO ACO ACO AC ACO ACO ACO AC ACO
Entry	Temperature	Yield <sup>a</sup>	<b>β:α</b> <sup>b</sup>
1	R. T.	46%	1:5.1
2	-30 °C	81%	1:1.3
3	-50 °C	75%	1.2:1
4	-60 °C	81%	1.7:1
<b>5</b> <sup>c</sup>	-78 °C	87%	2.8:1

<sup>*a*</sup> Isolated yields and the superscripts indicating the amount of donor regained. <sup>*b*</sup> Determined by <sup>1</sup>H NMR. <sup>*c*</sup> Due to the different freezing point between acetonitrile (-45 °C) and dichloromethane (-95 °C), the reaction needed occur in the DCM/MeCN = 1:1 mixed solvent instead of the DCM/MeCN = 1:2 mixed solvent at -78 °C.

AcO AcO AcO AcO $CO_2Et$ <b>18</b> STol (1.0 equiv) Bench-stable solid ( $\alpha$ : $\beta$ 2:1)	465nm LED Umemoto's reagent (1.5 equiv.) Ir[dF(CF <sub>3</sub> )ppy <u>b</u> (dtbbpy)PF <sub>6</sub> (0.04 eq 4Å, N <sub>2</sub> , 12h Cu(OTf) <sub>2</sub> (0.5 equiv.) Solvent 1.5 equiv.)	uiv.) AcO OAc AcO OAc AcO OAda + AcO OAda + 36οβ	Aco OAc AC ACO OAC AC A
Entry	Solvent MeCN/DCM	Yield <sup>a</sup>	<b>β:α</b> <sup>b</sup>
1	1/1	87%	2.8:1
2	1/2	68%	2.6:1
3	DCM	$49\%^{10\%}$	1.3:1
<b>4</b> <sup>c</sup>	2/1	99%	1:13
<b>5</b> °	MeCN	72%	1:9
<b>6</b> <sup>c</sup>	DCM	15% <sup>80%</sup>	α only

 Table S3. Effect of solvent on the Photocatalytic Kdo O-glycosidation reaction of 18.

<sup>*a*</sup> Isolated yields and the superscripts indicating the amount of donor regained. <sup>*b*</sup> Determined by <sup>1</sup>H NMR. <sup>*c*</sup> 1.5 equiv. of Cu(OTf)<sub>2</sub> and 3.4 equiv. of (*p*-Tol)<sub>2</sub>SO.

Table S4. Effect of the amount of (*p*-Tol)<sub>2</sub>SO on Photocatalytic Kdo *O*-glycosidation reaction of 18.

AcO AcO AcO $\mathbf{AcO}$ $\mathbf{AcO}$ $\mathbf{CO}_{2}Et$ <b>18</b> STol (1.0 equiv) Bench-stable solid ( $\alpha$ : $\beta$ 2:1)	465nm LED Umemoto's reagent (1.5 equiv.) Ir[dF(CF <sub>3</sub> )ppy] <sub>2</sub> (dtbbpy)PF <sub>6</sub> (0.04 equi <u>4Å, N<sub>2</sub>, 12h</u> Cu(OTf <sub>2</sub> (1.5 equiv.) MeCN/DCM = 2/1 S15 (1.5 equiv.) (p-Tol) <sub>2</sub> SO	$\begin{array}{c} A_{CO} & OAc \\ A_{CO} & OAc \\ A_{CO} & OAda \\ A_{CO} & OAda \\ 360\beta^{CO_2Et} \end{array} +$	$AcO OAc ACO OCO_2Et 360\alpha OAda$
Entry	(p-Tol)2SO	Yield <sup>a</sup>	<b>β:α</b> <sup>b</sup>
1 <sup>c</sup>	3.4 equiv.	85%	1:20
2	4.0 equiv.	56%	1:10
3	3.4 equiv.	99%	1:13
4	3.0 equiv.	88%	1:9.7
5	2.0 equiv.	81%	1:7.1
<sup><i>a</i></sup> Isolated yields and the sup	erscripts indicating the amount of	donor regained. <sup>b</sup> D	Determined by <sup>1</sup> H NMR. <sup>c</sup> 0.5

equiv. of Cu(OTf)<sub>2</sub>.

	$\begin{array}{c} AcO \\ AcO \\ AcO \\ AcO \\ \hline \\ 18 \\ STol \\ (1.0 equiv) \\ Bench-stable solid \\ (\alpha:\beta \ 2:1) \\ \end{array} \qquad \qquad$	465nm LED Umemoto's reagent (1.5 Photocatalyst (0.04 e Cu(OTf) <sub>2</sub> (0.5 equir anhydrous MeCN/DCN 4Å, N <sub>2</sub> , -78°C 12ł	$\begin{array}{c} AcO \\ AcO \\$	Ac Ac Acc OAda $+$ AcO CO <sub>2</sub> Et B	CO <sub>2</sub> Et OAda 36οα	
Entry	Photocatalyst	ET (kcal*mol <sup>-1</sup> )	<i>E</i> <sub>1/2</sub> PC <sup>+</sup> /PC <sup>*</sup> (V)	<i>E</i> <sub>1/2</sub> PC <sup>+</sup> /PC (V)	Yield <sup>b</sup> (%)	β:α°
1	$Ir[dF(CF_3)ppy]_2(dtbbpy)PF_6$	60.1	-0.89	+1.69	87%	2.8:1
2	4CzlPN	58.3	-1.18	+1.49	82%	2.7:1
3	$Ru(bpy)_3(PF_6)_2$	46.5	-0.81	+1.29	79%	2.8:1
4	Ir(dtbbpy)(ppy) <sub>2</sub> PF <sub>6</sub>	49.2	-0.96	+1.21	31% <sup>67%</sup>	2.7:1
5	Eosin Y	45.4	-1.11	+0.78	NR	ND
<sup>a</sup> Potenti	<sup>a</sup> Potentials versus saturated calomel electrode (SCE). <sup>b</sup> Isolated yields and the superscripts indicating					

**Table S5.** Evaluation of various photocatalysts. Triplet energies  $(E_T)$  and potentials  $(E_{1/2})$  of photocatalysts are based on literature values. <sup>a, [13-17]</sup>

**Table S6**. Electromotive force  $[E = \phi_{+} - \phi_{-}]$  for the single electron transfer processes.

the amount of donor regained. <sup>c</sup> Determined by <sup>1</sup>H NMR. NR: not reaction. ND: not determined.

Entry	Reactions	E (V)
1	${}^{3}Ir^{III*} + 31 \rightarrow Ir^{IV} + 31^{-}$	+0.59
2	${}^{3}Ir^{III*}+Cu^{II}\rightarrow Ir^{IV}+Cu^{I}$	+1.86
2		

<sup>a</sup> The electromotive force was calculated using the Nernst equation  $[\Delta G (kJ/mol) = -nFE(V)]$ .

**Table S7.** B3LYP-D3(BJ)/6-311+g(d,p) calculated Gibbs Free Energy difference[ $\Delta G = \Sigma G(\text{product}) - \Sigma G(\text{reactant})$ ] in DCM/MeCN = 1:1 solvent system.

Entry	Reactions	$\Delta G$ (kcal/mol)
1	$\begin{bmatrix} R_1^{+,\cdot} \end{bmatrix} + \begin{bmatrix} Kdo-STol \\ 18 \end{bmatrix} \longrightarrow \begin{bmatrix} S \\ 47 \end{bmatrix} + \begin{bmatrix} Kdo-STol \end{bmatrix} $	-1.7 298.15K -1.7 243.15K -1.7 195.15K



**Figure S3.** (a) Normalized transient emission kinetics of  ${}^{3}\mathbf{Ir}^{\mathbf{III}*}$  at 500 nm in deoxygenated conditions and in air conditions; (b) Transient absorption spectra of  ${}^{3}\mathbf{Ir}^{\mathbf{III}*} + \mathbf{18}$ ; (c) Steady-state emission spectra of  ${}^{3}\mathbf{Ir}^{\mathbf{III}*}$  at different concentrations of **31**; (d) Transient absorption spectra of **31** (1 mM) under deoxygenated conditions in MeCN solution following 355 nm excitation; (e) Kinetics curves for transient absorption at 450 and 560 nm of **31** (1 mM) under both deoxygenated and air conditions in MeCN solution following 355 nm excitation; (f) Normalized transient absorption spectrum obtained at 10 µs for  ${}^{3}\mathbf{Ir}^{\mathbf{III}*} + \mathbf{31}$ , in comparison with that for **31** (1 mM) under deoxygenated conditions in MeCN solution following 355 nm excitation; (g) Kinetics curve for transient absorption at 560 nm of  ${}^{3}\mathbf{Ir}^{\mathbf{III}*} + \mathbf{31} + \mathbf{18}$ . The red line is the fit; (h) Kinetics curves for transient absorption at 450 of  ${}^{3}\mathbf{Ir}^{\mathbf{III}*} + \mathbf{Cu}^{\mathbf{II}}$  under both deoxygenated and air conditions. Experimental conditions (unless otherwise stated): under deoxygenated conditions in MeCN solution following 430 nm. The concentrations of  $\mathbf{Ir}^{\mathbf{III}}$ , **31**, **18**, and  $\mathbf{Cu}^{\mathbf{II}}$  used are 400 uM, 8 mM, 8 mM, and 8 mM, respectively.



**Figure S4.** (a) ESR experiments for trapping radicals using PBN as radical scavenger in MeCN (80 $\mu$ L in total) from the homolysis of **31** under the irradiation of UV and the homolysis of the Ir[dF(CF<sub>3</sub>)ppy]<sub>2</sub>(dtbbpy)PF<sub>6</sub> & **31** system under the irradiation of visible light; (b) Comparative ESR experiments for trapping radicals using PBN as radical scavenger in MeCN (80 $\mu$ L in total). (PBN: 200mM, 10 $\mu$ L; **31**: 200mM, 20 $\mu$ L; KdoSTol **18**: 200mM, 20 $\mu$ L; Ir[dF(CF<sub>3</sub>)ppy]<sub>2</sub>(dtbbpy)PF<sub>6</sub>: 20mM, 10 $\mu$ L). The spectroscopic data of ·CF<sub>3</sub> and R<sub>1</sub>S<sup>-+</sup> coincided with the previous report. <sup>[19, 20]</sup>



**Figure S5.** Calculated absorption spectra at the TD-B3LYP-D3(BJ)/6-311+G(d, p)/SMD/ (MeCN/DCM = 1:1) level of theory. UV-Vis peak half-width at half height was set at 0.3 eV. (a) for  $\cdot$ CF<sub>3</sub>; (b) for R<sub>1</sub>S<sup>++</sup>; (c) for **18**<sup>++</sup>; (d) for **32**; (e) for **33**; (f) for **48**; (g) for Kdo glycosyl radical.



Figure S6. (a) The input structure of  $32^+$ ; (b) The optimized structure of  $32^+$  obtained at the level of B3LYP-D3(BJ)/6-311+G(d, p)/SMD/(MeCN/DCM = 1:1).

In comparison with the input structure of  $32^+$  cation, the optimized structure reveals that CF<sub>3</sub>STol (48) has been already detached, suggesting the expulsion of 48 from the  $32^+$  cation to yield the oxacarbenium ion 33 is a barrier-free process. Consequently, once this cation is formed, a rapid detachment of 48 can be anticipated.

#### Note:

In Figure S3f, the transient absorption spectra resulting from the homolytic cleavage of 31 upon individual excitation and that arising from the quenching of <sup>3</sup>Ir<sup>III\*</sup> by 31 both exhibit a characteristic absorption band around 450 nm. If the quenching of <sup>3</sup>Ir<sup>III\*</sup> by 31 were solely governed by the Dexter energy transfer pathway, its the spectral signature would necessarily coincide precisely with the transient absorption spectrum observed from the homolytic cleavage of 31 excited independently. However, upon meticulous comparison of the transient absorption spectra under these two conditions, subtle differences emerge near 400 nm and within the 500-600 nm region: the spectrum resulting from the reaction of  ${}^{3}Ir^{III*} + 31$  displays negative signals near 400 nm and slightly stronger absorption signals in the 500-600 nm range, compared to the system where **31** is excited alone. This observation suggests the presence of additional transient species beyond those generated solely by homolytic cleavage in the  ${}^{3}Ir^{III*} + 31$  system. This extra transient species indicates that the  ${}^{3}Ir^{III*} + 31$  reaction encompasses quenching pathways other than energy transfer. Upon observing novel spectral features, including negative signals near 400 nm and positive absorption within the 500-600 nm range, which mirror signals documented in literature for oxidized Ir photocatalyst (Ir<sup>IV</sup>)<sup>[18]</sup>, and considering the thermodynamic favorability of **31** quenching  ${}^{3}Ir^{III*}$  through electron transfer, as supported by redox potential calculations (Table S6, Entry 1), we hypothesize that, in addition to the primary Dexter energy transfer pathway, an electron transfer quenching mechanism may also contribute to the quenching reaction between <sup>3</sup>Ir<sup>III\*</sup> and 31.

For Figure S3g, given that the generation of species  $18^{++}$  and its decay occur concurrently at the initial time, to eliminate the interference from the process of species  $18^{++}$  generation and ensure a more accurate description of its decay kinetics, we chose to analyze its decay behavior starting from 15 µs. We found that its decay can be well described by a second-order reaction behavior, in contrast to the mono-exponential decay.

### 2 Materials and instruments

**General experiments and characterizations.** All reactions were carried out under nitrogen atmosphere unless otherwise stated. Solvents used were analytical grade. Chemical reactions were monitored by analytical thin-layer chromatography (TLC) on silica gel F254 glass plates and revealed by UV light (254 nm) or heating after dipping in EtOH-H<sub>2</sub>SO<sub>4</sub> (7%). Flash column chromatography was performed on silica gel (200-300 mesh). High-resolution mass spectra (HRMS) were obtained in the ESI mode (Bruker micrOTOF-QII mass spectrometer (ESI)). Optical rotation was determined in chloroform or methanol by an automatic polarimeter. NMR spectra were recorded using CDCl<sub>3</sub> as solvents. Chemical shifts (δ) were reported in units per million (ppm) and coupling constants (J) in Hz. <sup>1</sup>H NMR spectra, <sup>13</sup>C NMR spectra and the selective proton decoupled NMR spectra were recorded on JNM-ECZR spectrometer (400 and 600 MHz) or Bruker Avance III spectrometer (500 MHz). EPR spectra were collected on a Bruker E500 spectrometer.

Laser flash photolysis. Nanosecond time-resolved transient absorption spectra were measured using a flash photolysis setup Edinburgh LP980 spectrometer (Edinburgh Instruments Ltd.). In this work, the sample was excited by a 430 nm or 355 nm laser pulse (1 Hz, 20 mJ/pulse/cm<sup>2</sup>, fwhm  $\approx$  7 ns). A Surelite II-10 Q-Switched Nd:YAG laser (Continuum) provides third harmonic laser pulses at 355 nm with a repetition rate of 10 Hz and maximum output of 1.5 W. The laser output was directed to a Horizon I Mid-band Optical Parametric Oscillator (OPO) (Continuum) to produce 430 nm pump pulse. The pump pulse of 355 nm is generated by a commercial Nd:YAG laser (Lab 170, Spectral Physics Inc.) Each measurement was performed in a quartz cuvette with 1 cm path length at room temperature. The analyzing light was from a 150 W pulsed xenon lamp. A monochromator equipped with a photomultiplier for collecting the spectral range from 300 to 700 nm was used to analyze transient absorption spectra. The signals from the photomultiplier were displayed and recorded as a function of time on a 100 MHz (1.25 Gs/s sampling rate) oscilloscope (Tektronix, TDS 3012C), and the data were transferred to a personal computer. The fitting quality was judged by weighted residuals and reduced  $\chi^2$  value.

**Steady-state Spectral Measurement.** The UV-vis absorption spectra were measured using a UV-vis spectrometer (U-3010, Hitachi). Each measurement was collected from 300 to 700 at a scan speed of 600 nm/min. The spectrum of a blank sample containing the pure solvent was used as the background, which was subtracted from the averaged spectra. Emission spectra were measured on a fluorescence spectrometer (F4600, Hitachi). Quartz cuvettes of  $1 \times 1$  cm were used for all absorption and emission spectral measurements.

## **3** Experimental procedures

## 3.1 Preparation of donors

Ethyl (*p*-tolyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-2-thio-α,β-D-manno-oct-2-ulopyranosid)onate (18)<sup>[3]</sup>



Compound 18 was prepared according to the literature method.<sup>[3]</sup>

**18a**: <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.31 (d, *J* = 8.1 Hz, 2H), 7.11 (d, *J* = 8.0 Hz, 2H), 5.48 – 5.40 (m, 2H), 5.24 (ddd, *J* = 9.6, 4.3, 2.5 Hz, 1H), 4.72 (dd, *J* = 9.6, 1.0 Hz, 1H), 4.47 (dd, *J* = 12.3, 2.5 Hz, 1H), 4.06 – 4.02 (m, 2H), 4.00 (dd, *J* = 12.2, 4.4 Hz, 1H), 2.43 – 2.38 (m, 1H), 2.34 (s, 3H), 2.30 (t, *J* = 6.6 Hz, 1H), 2.08 (s, 3H), 2.07 (s, 3H), 2.01 (s, 3H), 2.00 (s, 3H), 1.12 (t, *J* = 7.1 Hz, 3H).

**18β**: <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.43 (d, *J* = 7.6 Hz, 2H), 7.14 (d, *J* = 7.7 Hz, 2H), 5.27 (s, 1H), 5.22 (dd, *J* = 8.4, 6.1 Hz, 1H), 4.93 – 4.82 (m, 1H), 4.57 (d, *J* = 12.1 Hz, 1H), 4.10 – 3.99 (m, 2H), 3.98 – 3.92 (m, 1H), 3.89 (d, *J* = 9.5 Hz, 1H), 2.57 (dd, *J* = 12.6, 4.6 Hz, 1H), 2.35 (s, 3H), 2.19 (t, *J* = 12.6 Hz, 1H), 2.08 (s, 3H), 2.04 (s, 3H), 1.98 (s, 6H), 1.10 (t, *J* = 7.1 Hz, 3H).

The spectroscopic data coincided with the previous report.<sup>[3]</sup>



Scheme S1. The synthesis of Kdo donors 37-40.

### Ethyl (*p*-tolyl 8-*O*-*tert*-butyldiphenylsilyl-3-deoxy-2-thio-α,β-D-*manno*-oct-2ulopyranosid)onate (S30)



To a solution of  $829^{[3]}$  (1.12 g, 3.0 mmol) and DABCO (1.35 g, 12.0 mmol) in dry MeCN (15 mL) were added TBDPSCI (3.0 mL, 12 mmol) at 0 °C under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 3h at 0 °C and then it was quenched by MeOH. The resulting mixture was concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (50:1, CH<sub>2</sub>Cl<sub>2</sub>-MeOH, v/v) to afford **S30** (1.16 g, 64%) as a white amorphous solid.

**S306:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.70$  (d, J = 7.3 Hz, 2H), 7.66 (d, J = 6.8 Hz, 2 H), 7.50 – 7.34 (m, 6H), 7.23 (d, J = 7.9 Hz, 2H), 6.74 (d, J = 7.9 Hz, 2H), 4.13 (td, J = 7.7, 3.8 Hz, 1H), 4.03 (s, 1H), 4.01 (dd, J = 10.7, 4.2 Hz, 1H), 3.86 (dq, J = 11.3, 7.2 Hz, 1H), 3.71 (dq, J = 11.0, 7.2 Hz, 1H), 3.61 (ddd, J = 11.5, 4.4, 3.5 Hz, 1H), 3.54 (dd, J = 10.3, 8.2 Hz, 1H), 3.29 (d, J = 7.7 Hz, 1H), 2.65 (dd, J = 12.8, 4.9 Hz, 1H), 2.24 (s, 3H), 1.97 (t, J = 12.2 Hz, 1H), 1.06 (s, 9H), 0.80 (t, J = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 168.5$  (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 7.0 Hz, 101 MHz), 139.8, 136.4, 135.6, 135.6, 133.1, 133.0, 130.2, 130.0, 129.3, 128.1, 128.0, 125.8, 87.3, 76.6, 70.4, 67.3, 6 6.2, 65.8, 61.7, 35.2, 26.9, 21.3, 19.3, 13.7.

HRMS (ESI) m/z Calcd for C<sub>33</sub>H<sub>42</sub>O<sub>7</sub>SiSNa [M + Na]<sup>+</sup> 633.2312, found: 633.2307.

## Ethyl (*p*-tolyl 4,5,7-tri-*O*-acetyl-8-*O-tert*-butyldiphenylsilyl-3-deoxy-2-thio-α,β-D-*manno*-oct-2-ulopyranosid)onate (37)



To a solution of **S30** (263 mg, 0.43 mmol) and DMAP (211 mg, 1.72 mmol) in dry  $CH_2Cl_2$  (5 mL) were added Ac<sub>2</sub>O (488 µL, 5.17 mmol) at room temperature under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 1h and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with  $CH_2Cl_2$ , washed with water, dried by anhydrous MgSO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (5:1, Petroleum ether/ethyl acetate, v/v) to afford **37** (269 mg, 85%) as a white amorphous solid.

**37α/β:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.71 (d, J = 6.5 Hz, 2H), 7.64 (dt, J = 15.3, 7.1 Hz, 5.4H), 7.49 - 7.39 (m, 7.4H), 7.36 (q, J = 7.4 Hz, 3.2H), 7.26 (d, J = 7.9 Hz, 2H), 7.

22 (d, J = 8.0 Hz, 1.6H), 6.79 (d, J = 7.9 Hz, 2H), 6.75 (d, J = 7.9 Hz, 1.6H), 5.45 – 5. 41 (m, 0.8H), 5.40 (s, 0.8H), 5.38 – 5.34 (m, 1H), 5.30 – 5.26 (m, 0.8H), 5.25 (s, 1H), 4.8 8 – 4.81 (m, 1H), 4.70 (d, J = 9.6 Hz, 0.8H), 4.06 – 3.98 (m, 2.6H), 3.87 (ddd, J = 11.9, 8.3, 5.4 Hz, 1.8H), 3.81 (dd, J = 11.5, 6.1 Hz, 0.8H), 3.77 – 3.72 (m, 1H), 3.69 (d, J = 9. 5 Hz, 1H), 3.66 (dd, J = 11.2, 8.1 Hz, 1H), 2.55 (dd, J = 12.5, 4.7 Hz, 1H), 2.37 (dd, J = 13.6, 4.8 Hz, 0.8H), 2.29 (t, J = 12.7 Hz, 1H), 2.25 (s, 3H), 2.16 (t, J = 12.6 Hz, 0.8H), 2.14 (s, 2.4H), 2.12 (s, 3H), 2.05 (s, 2.4H), 1.99 (s, 2.4H), 1.97 (s, 3H), 1.96 (s, 3H), 1.9 3 (s, 2.4H), 1.08 (t, J = 7.1 Hz, 2.4H), 1.03 (s, 7.2H), 1.02 (s, 9H), 0.82 (t, J = 7.2 Hz, 3 H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.8$ , 170.7, 170.0, 170.0, 169.9, 169.9, 168.0, 167.9, 14 0.0, 139.7, 136.5, 135.9, 135.8, 135.8, 135.7, 135.6, 133.8, 133.6, 133.6, 133.5, 130.0, 129.9, 129.8, 129.8, 129.6, 129.4, 127.9, 127.9, 127.8, 127.8, 126.2, 125.6, 89.0, 88.4, 87.7, 73.4, 70.4, 70.3, 69.7, 67.5, 67.1, 64.8, 64.0, 64.0, 63.1, 62.0, 61.8, 32.4, 32.1, 26.9, 26.8, 21.4, 2 1.2, 21.0, 20.9, 20.9, 19.4, 19.3, 13.9, 13.7.

HRMS (ESI) m/z Calcd for C<sub>39</sub>H<sub>48</sub>O<sub>10</sub>SiSNa [M + Na]<sup>+</sup> 759.2629, found: 759.2625.

### Ethyl (*p*-tolyl 4-*O*-trimethylacetyl-5,7-di-*O*-acetyl-8-*O*-*tert*-butyldiphenylsilyl-3-deoxy-2-thioα,β-D-*manno*-oct-2-ulopyranosid)onate (38)



To a solution of **S30** (534 mg, 0.87 mmol) and DMAP (428 mg, 3.5 mmol) in dry DCM (15 mL) were added PivCl (1.3 mL, 10.5 mmol) at 0 °C under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 24h at room temperature and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with water, dried by anhydrous Na<sub>2</sub>SO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (3:1, Petroleum ether/ethyl acetate, v/v) to afford **S31** (91 mg, 15%) as a colorless syrup.

**S31**β: <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 7.70$  (d, J = 7.1 Hz, 2H), 7.67 (d, J = 7.3 Hz, 2 H), 7.44 (dt, J = 18.5, 9.3 Hz, 4H), 7.36 (t, J = 7.1 Hz, 2H), 7.23 (d, J = 7.3 Hz, 2H), 6. 73 (d, J = 7.5 Hz, 2H), 4.77 – 4.63 (m, 1H), 4.20 – 4.12 (m, 2H), 4.01 (d, J = 10.2 Hz, 1H), 3.92 – 3.82 (m, 1H), 3.80 – 3.69 (m, 1H), 3.55 (t, J = 9.1 Hz, 1H), 3.35 (d, J = 7.9 Hz, 1H), 2.60 (dd, J = 12.3, 4.4 Hz, 1H), 2.23 (s, 3H), 2.21 (t, J = 12.3 Hz, 1H), 1.22 (s, 9H), 1.06 (s, 9H), 0.81 (t, J = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 177.4$ , 168.2 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.4 Hz, 151 MHz), 139.9,

136.4, 135.7, 135.6, 133.2, 133.2, 130.1, 130.0, 129.3, 128.1, 128.0, 125.8, 87.3, 76.6, 70.0, 69.6, 65.8, 64.4, 61.8, 39.0, 31.6, 27.3, 27.2, 27.0, 21.4, 19.3, 13.8. HRMS (ESI) m/z Calcd for C<sub>38</sub>H<sub>51</sub>O<sub>8</sub>SiS [M + H]<sup>+</sup> 695.3068, found: 695.3062.

To a solution of **S31** $\beta$  (209 mg, 0.3 mmol) and DMAP (110 mg, 0.9 mmol) in dry CH<sub>2</sub>Cl<sub>2</sub> (5 mL) were added Ac<sub>2</sub>O (227 µL, 2.4 mmol) at room temperature under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 1h and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with water, dried by anhydrous MgSO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (8:1, Petroleum ether/ethyl acetate, v/v) to afford **38** $\beta$  (215 mg, 92%) as a white amorphous solid.

**386**: <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.73 - 7.68$  (m, 2H, OTBDPS), 7.63 (d, J = 7.0 Hz, 2H, OTBDPS), 7.42 (dt, J = 7.0, 5.8 Hz, 4H, OTBDPS), 7.35 (t, J = 7.3 Hz, 2H, OTBDPS), 7.26 (d, J = 7.6 Hz, 2H, STol), 6.78 (d, J = 7.9 Hz, 2H, STol), 5.40 – 5.28 (m, 2H, H-5 & H-7), 4.86 – 4.72 (m, 1H, H-4), 4.02 (dd, J = 11.2, 2.3 Hz, 1H, H-8), 3.87 (dq, J = 10.7, 7.1 Hz, 1H, CH<sub>2</sub> of Et group), 3.74 (dt, J = 12.5, 8.2 Hz, 2H, H-6 & CH<sub>2</sub> of Et group), 3.65 (dd, J = 11.2, 8.0 Hz, 1H, H-8), 2.58 (dd, J = 12.4, 4.8 Hz, 1H, H-3), 2.25 (s, 3H, CH<sub>3</sub> of STol), 2.15 (t, J = 12.4 Hz, 1H, H-3), 2.11 (s, 3H, OAc), 1.98 (s, 3H, OAc), 1.13 (s, 9H, OPiv), 1.01 (s, 9H, OTBDPS), 0.81 (t, J = 7.1 Hz, 3H, CH<sub>3</sub> of Et group). <sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 177.1$ , 170.6, 170.0, 167.9 (C1, <sup>3</sup> $_{JC-1/H-3ax} = 6.9$  Hz, 101 MHz), 140.0, 136.4, 135.8, 135.7, 133.6, 133.6, 130.0, 129.8, 129.4, 127.9, 127.8, 125.6, 87. 6, 73.5, 70.2, 67.4, 64.0, 63.9, 62.0, 38.8, 32.2, 27.1, 26.8, 21.4, 21.0, 20.9, 19.3, 13.8. HRMS (ESI) m/z Calcd for C<sub>42</sub>H<sub>55</sub>O<sub>10</sub>SiS [M + H]<sup>+</sup> 779.3279, found: 779.3288.

### Ethyl (*p*-tolyl 4,7-*O*-di-trimethylacetyl-5-*O*-acetyl-8-*O*-*tert*-butyldiphenylsilyl-3-deoxy-2-thioα,β-D-*manno*-oct-2-ulopyranosid)onate (39)



To a solution of **S30** (534 mg, 0.87 mmol) and DMAP (428 mg, 3.5 mmol) in dry DCM (15 mL) were added PivCl (1.3 mL, 10.5 mmol) at 0 °C under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 24h at room temperature and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with water, dried by anhydrous Na<sub>2</sub>SO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (15:1, Petroleum ether/ethyl acetate, v/v) to afford **S32** (468 mg, 69%) as a colorless syrup.

**S32a:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.65$  (ddd, J = 11.0, 7.9, 1.5 Hz, 4H), 7.47 - 7.33 (m, 6H), 7.17 (d, J = 8.1 Hz, 2H), 6.76 (d, J = 7.9 Hz, 2H), 5.34 (td, J = 8.1, 2.8 Hz, 1 H), 5.24 (ddd, J = 12.3, 4.8, 3.0 Hz, 1H), 4.29 (d, J = 8.6 Hz, 1H), 4.01 - 3.91 (m, 3H),

3.84 (d, J = 2.5 Hz, 1H), 3.80 (dd, J = 11.2, 7.7 Hz, 1H), 2.41 (t, J = 7.1 Hz, 1H), 2.27 (dd, J = 13.5, 4.6 Hz, 1H), 2.14 (s, 3H), 1.25 (s, 9H), 1.21 (s, 9H), 1.01 (s, 9H), 0.98 (t, J = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 179.4$ , 177.8, 168.4 (C1,  ${}^{3}J_{C-1/H-3ax} = 0$  Hz, 101 MHz), 1 39.5, 135.8, 135.8, 135.7, 135.6, 133.6, 133.2, 129.8, 129.8, 129.5, 127.8, 127.8, 126.5, 89.0, 72.6, 72.0, 69.0, 64.3, 63.3, 61.7, 39.2, 39.0, 31.3, 27.4, 27.2, 27.2, 27.2, 26.9, 21.2, 19.3, 13.9.

HRMS (ESI) m/z Calcd for C<sub>43</sub>H<sub>59</sub>O<sub>9</sub>SiS  $[M + H]^+$  779.3643, found: 779.3639.

To a solution of **S32a** (234 mg, 0.3 mmol) and DMAP (79 mg, 0.64 mmol) in dry CH<sub>2</sub>Cl<sub>2</sub> (5 mL) were added Ac<sub>2</sub>O (121  $\mu$ L, 1.28 mmol) at room temperature under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 1h and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with water, dried by anhydrous MgSO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (10:1, Petroleum ether/ethyl acetate, v/v) to afford **39a** (218 mg, 89%) as a white amorphous solid.

**39α:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 7.68 – 7.59 (m, 4H, OTBDPS), 7.46 – 7.33 (m, 6H, OTBDPS), 7.16 (d, *J* = 8.1 Hz, 2H, STol), 6.73 (d, *J* = 7.9 Hz, 2H, STol), 5.45 – 5.34 (m, 3H, H-4 & H-7 & H-5), 4.55 – 4.46 (m, 1H, H-6), 4.02 (q, *J* = 7.0 Hz, 2H, CH<sub>2</sub> of Et group), 3.87 (dd, *J* = 11.1, 2.3 Hz, 1H, H-8), 3.71 (dd, *J* = 11.1, 8.0 Hz, 1H, H-8), 2.33 – 2.20 (m, 2H, H-3), 2.12 (s, 3H, CH<sub>3</sub> of STol), 2.06 (s, 3H, OAc), 1.21 (s, 9H, OPiv), 1.13 (s, 9H, OPiv), 1.04 (t, *J* = 7.2 Hz, 3H, CH<sub>3</sub> of Et group), 1.00 (s, 9H, OTBDPS).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 177.3$ , 177.2, 170.0, 168.3 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 M Hz), 139.7, 135.8, 135.7, 133.8, 133.2, 129.8, 129.7, 129.6, 127.8, 127.7, 88.7, 70.7, 70.1, 6 7.2, 64.5, 64.1, 61.8, 39.0, 38.8, 32.0, 27.3, 27.1, 26.9, 21.2, 21.0, 19.3, 13.9. HRMS (ESI) m/z Calcd for C<sub>45</sub>H<sub>61</sub>O<sub>10</sub>SiS [M + H]<sup>+</sup> 821.3749, found: 821.3756.

## Ethyl (*p*-tolyl 4-*O*-acetyl-5,7-di-*O-tert*-butylsilyl-8-*O-tert*-butyldiphenylsilyl-3-deoxy-2-thio-α,β-D-*manno*-oct-2-ulopyranosid)onate (40)



To a solution of **S30** (264 mg, 0.4 mmol) and DMAP (29 mg, 0.24 mmol) in dry pyridine (4.4 mL) were added DTBS ditriflate (150  $\mu$ L, 0.46 mmol) at 0 °C under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 4h at 0 °C and then it was quenched by saturated aqueous NH<sub>4</sub>Cl, diluted with

EtOAc, washed with 1 M HCl, saturated aqueous NaHCO<sub>3</sub> and saturated aqueous NaCl, dried by anhydrous Na<sub>2</sub>SO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (10:1, Petroleum ether/ethyl acetate, v/v) to afford **S33** (246 mg, 82%) as a white amorphous solid. To a solution of **S33** (225 mg, 0.3 mmol) and DMAP (79 mg, 0.64 mmol) in dry CH<sub>2</sub>Cl<sub>2</sub> (5 mL) were added Ac<sub>2</sub>O (121  $\mu$ L, 1.28 mmol) at room temperature under the N<sub>2</sub> atmosphere. The reaction mixture was stirred 1h and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with water, dried by anhydrous MgSO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (10:1, Petroleum ether/ethyl acetate, v/v) to afford **40** (228 mg, 96%) as a white amorphous solid.

**40** $\alpha/\beta$ : <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 7.71$  (dd, J = 12.2, 4.7 Hz, 4H), 7.67 – 7.62 (m, 2.66H), 7.44 – 7.33 (m, 11.26H), 7.27 (d, J = 6.9 Hz, 2H), 7.09 (d, J = 7.9 Hz, 1.32H), 6. 99 (d, J = 7.9 Hz, 2H), 5.17 (ddd, J = 12.2, 4.5, 2.5 Hz, 1H), 4.72 (s, 1H), 4.66 (ddd, J = 12.1, 4.5, 2.5 Hz, 0.66H), 4.40 (d, J = 1.8 Hz, 1H), 4.36 (dd, J = 8.9, 5.6 Hz, 1.66H), 4.29 (t, J = 5.5 Hz, 0.66H), 4.04 (dq, J = 10.7, 7.1 Hz, 1H), 3.99 – 3.93 (m, 0.66H), 3.93 – 3.87 (m, 1.66H), 3.80 – 3.75 (m, 1.66H), 3.71 (dd, J = 12.1 Hz, 0.66H), 2.37 – 2.34 (m, 2.98 H), 2.29 (s, 3H), 2.11 (s, 3H), 2.10 (s, 1.98H), 1.18 (s, 5.94H), 1.07 (s, 9H), 1.05 (t, J = 7. 1 Hz, 3H), 1.02 (s, 5.94H), 0.98 (t, J = 7.5 Hz, 1.98H), 0.97 (s, 9H), 0.94 (s, 5.94H), 0.91 (s, 9H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.3$ , 170.3, 168.5, 168.3, 139.8, 139.3, 136.5, 135.8, 13 5.8, 135.8, 133.4, 133.4, 133.3, 133.1, 130.0, 130.0, 129.8, 129.8, 129.6, 129.5, 128.0, 128.0, 127.8, 126.8, 126.4, 89.2, 86.8, 77.2, 76.6, 75.0, 71.1, 70.5, 70.1, 66.6, 66.0, 66.0, 65.7, 6 1.7, 61.5, 31.6, 28.1, 27.9, 27.4, 27.3, 27.0, 27.0, 22.2, 22.1, 21.8, 21.6, 21.4, 21.4, 21.2, 2 1.1, 19.3, 14.0, 14.0.

HRMS (ESI) m/z Calcd for  $C_{43}H_{60}O_8Si_2SNa [M + Na]^+ 815.3439$ , found: 815.3430.

Ethyl (*p*-tolyl 4,5:7,8-di-*O*-isopropylidene-3-deoxy-2-thio-α,β-D-manno-oct-2-ulopyranosid)onate (41)



Compound 41 was prepared according to the literature method.<sup>[3]</sup>

**41** $\alpha$ : <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.38 (d, *J* = 8.0 Hz, 2H), 7.09 (d, *J* = 7.9 Hz, 2H), 4.54 (dt, *J* = 7.2, 3.0 Hz, 1H), 4.38 – 4.32 (m, 2H), 4.15 (ddd, *J* = 13.4, 8.5, 5.6 Hz, 2H), 3.97 – 3.84 (m, 2H), 3.82 (dd, *J* = 7.7, 1.5 Hz, 1H), 3.11 (dd, *J* = 15.3, 3.7 Hz, 1H), 2.33 (s, 3H), 1.94 (dd, *J* = 15.3, 2.3 Hz, 1H), 1.49 (s, 3H), 1.40 (s, 3H), 1.35 (s, 3H), 1.31 (s, 3H), 1.01 (t, *J* = 7.1 Hz, 3H). The spectroscopic data coincided with the previous report.<sup>[3]</sup>

## 3.2 Preparation of acceptors

S1 (1-Octanol) was purchased from Alfa Aesar of Thermo Fisher Scientific Inc.

**S2** (Benzyl (3-Hydroxypropyl) Carbamate) was purchased from Adamas-beta of Shanghai Titan Scientific Co., Ltd.

S3 (3-Chloro-1-propanol) was purchased from Shanghai Aladdin Biochemical Technology Co., Ltd.

S4 (2-Azidoethanol) was purchased from Innochem (Beijing) Technology Co., Ltd.

S5 (N-Boc-L-Serine methyl ester) was purchased from Innochem (Beijing) Technology Co., Ltd.

S6 (1,6-Hexanediol) was purchased from Innochem (Beijing) Technology Co., Ltd.

S7 (3-Butyn-1-ol) was purchased from Innochem (Beijing) Technology Co., Ltd.

S8 (5-Chloropentanol) was purchased from Innochem (Beijing) Technology Co., Ltd.

S9 (Benzyl alcohol) was purchased from Innochem (Beijing) Technology Co., Ltd.

**S10** (3,5-Di-Tert-Butylbenzyl Alcohol) was purchased from Adamas-beta of Shanghai Titan Scientific Co., Ltd.

S11 (L-(-)-Menthol) was purchased from Innochem (Beijing) Technology Co., Ltd.

S12 (2-Adamanthanol) was purchased from Innochem (Beijing) Technology Co., Ltd.

S13 (Epiandrosterone) was purchased from Innochem (Beijing) Technology Co., Ltd.

S14 (3β-Cholestanol) was purchased from Alfa Aesar of Thermo Fisher Scientific Inc.

S15 (1-Adamanthanol) was purchased from Acros Organics of Thermo Fisher Scientific Inc.

**S16** was synthesized according to the previously published procedure.<sup>[3, 22, 23]</sup>

Methyl 2,3,4-tri-O-benzyl-α-D-glucopyranoside (S16)<sup>[3, 22, 23]</sup>



<sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 7.39 - 7.28$  (m, 15H), 4.99 (d, J = 10.9 Hz, 1H), 4.89 (d, J = 11.0 Hz, 1H), 4.84 (d, J = 10.9 Hz, 1H), 4.80 (d, J = 12.0 Hz, 1H), 4.65 (dd, J = 14.2, 11.6 Hz, 2H), 4.57 (d, J = 3.4 Hz, 1H), 4.01 (t, J = 9.3 Hz, 1H), 3.77 (dd, J = 11.7, 2.7 Hz, 1H), 3.69 (dd, J = 11.7, 4.1 Hz, 1H), 3.65 (dt, J = 9.9, 3.3 Hz, 1H), 3.53 (d, J = 9.4 Hz, 1H), 3.50 (dd, J = 9.7, 3.6 Hz, 1H), 3.37 (s, 3H). The spectroscopic data coincided with the previous report.<sup>[3, 22, 23]</sup>

**S17** (Methyl 2,3,4-Tri-*O*-benzoyl-α-D-Glucopyranoside) was purchased from Adamas-beta of Shanghai Titan Scientific Co., Ltd.

**S18** was synthesized according to the previously published procedure.<sup>[2]</sup>

#### Methyl 2-acetamido-3,4-di-O-benzyl-2-deoxy-α-D-glucopyranoside (S18)<sup>[2]</sup>

H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.36 - 7.28$  (m, 10H), 5.29 (t, J = 9.8 Hz, 1H), 4.87 (dd, J = 11.3, 6.6 Hz, 2H), 4.70 - 4.62 (m, 3H), 4.19 (td, J = 9.7, 3.5 Hz, 1H), 3.82 (dd, J = 11.9, 2.0 Hz, 1H), 3.76 - 3.62 (m, 4H), 3.31 (s, 3H), 2.07 - 1.96 (m, 1H), 1.84 (s, 3H).

The spectroscopic data coincided with the previous report.<sup>[2]</sup>

**S19** (1,2:3,4-Di-*O*-isopropylidene-D-galactopyranose) was purchased from TCI (Shanghai) Development Co., Ltd.

S20 (Diacetonefructose) was purchased from Innochem (Beijing) Technology Co., Ltd.

S21 (Diacetone-D-glucose) was purchased from Innochem (Beijing) Technology Co., Ltd.

**S22** (D-Glucurono-6,3-Lactone Acetonide) was purchased from Adamas-beta of Shanghai Titan Scientific Co., Ltd.

S23 (Methyl 2,3-O-isopropylidene-α-L-rhamnopyranoside) was purchased from Shanghai Aladdin

Biochemical Technology Co., Ltd.

#### Ethyl (2-O-acetyl-7,8-di-O-isopropylidene-3-deoxy-α-D-manno-oct-2-ulopyranosyl)onate (S24)



To a solution of  $S34^{[3]}$  (2.0 g, 6.5 mmol) in dry DMF (60 mL) were added 2,2-dimethoxypropane (1.0 mL, 8 mmol) and a catalytic amount of *p*-toluenesulfonic acid (112 mg, 0.65 mmol) at room temperature. The reaction mixture was stirred overnight at room temperature and then it was quenched by Et<sub>3</sub>N. The resulting mixture was concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (50:1, CH<sub>2</sub>Cl<sub>2</sub>-MeOH, v/v) to afford S24 (1.62 g, 72%) as a white amorphous solid.

**S24:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 4.39$  (dt, J = 9.5, 5.2 Hz, 1H, H-7), 4.24 (q, J = 7. 0 Hz, 2H, CH<sub>2</sub>CH<sub>3</sub>), 4.12 (dd, J = 8.7, 6.5 Hz, 1H, H-8), 4.08 – 4.01 (m, 2H, H-4 and H-5), 3.88 (dd, J = 9.0, 3.9 Hz, 1H, H-8), 3.53 (d, J = 8.4 Hz, 1H, H-6), 3.15 (broad, 2H, O H), 2.22 (dd, J = 12.2, 3.4 Hz, 1H, H-3eq), 2.11 (s, 3H, OAc) 2.01 (t, J = 12.3 Hz, 1H, H-3ax), 1.42 (s, 3H, CH<sub>3</sub>), 1.36 (s, 3H, CH<sub>3</sub>), 1.27 (t, J = 7.1 Hz, 3H, CH<sub>2</sub>CH<sub>3</sub>). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 168.6$  (C1, <sup>3</sup> $J_{C-1/H-3ax} = 0$  Hz, 151 MHz), 167.2, 109.7, 9 8.0, 74.9, 73.1, 67.5, 66.4, 65.7, 62.4, 33.8, 27.0, 25.1, 20.9, 14.0. HRMS (ESI) m/z Calcd for C<sub>15</sub>H<sub>24</sub>O<sub>9</sub>Na [M + Na]<sup>+</sup> 371.1312, found: 371.1319.

S25 was synthesized according to the previously published procedure.<sup>[3, 24]</sup> Methyl 2-*O*-benzyl-4,6-*O*-benzylidene-α-D-mannopyranoside (S25)<sup>[3, 24]</sup>



<sup>1</sup>H NMR (600 MHz, CD<sub>3</sub>CN):  $\delta = 7.56 - 7.29$  (m, 10H), 5.59 (s, 1H), 4.79 (s, 1H), 4.76 - 4.66 (m, 2H), 4.19 (dd, J = 10.0, 4.7 Hz, 1H), 3.90 (ddd, J = 10.6, 7.3, 3.5 Hz, 1H), 3.83 (t, J = 9.6 Hz, 1H), 3.77 - 3.71 (m, 2H), 3.67 (dd, J = 9.5, 4.7 Hz, 1H), 3.35 (s, 3H), 3.15 (d, J = 7.4 Hz, 1H). The spectroscopic data coincided with the previous report.<sup>[3, 24]</sup>

S26 (1,2:5,6-Di-O-isopropylidene-α-D-allofuranose) was purchased from Shanghai Haohong

Scientific Co., Ltd.

#### 2-Azidoethyl 2-O-benzoyl-4,6-O-benzylidene-β-D-galactopyranoside (S27)



To a solution of  $S35^{[3]}$  (287 mg, 0.53 mmol) in pyridine-HOAc mixed solvent (2.4 mL, Py/HOAc = 3:1, v/v) were added H<sub>2</sub>NNH<sub>2</sub>·HOAc (398 mg, 4.3 mmol). The reaction mixture was stirred overnight at room temperature and then it was quenched by saturated aqueous NaHCO<sub>3</sub>, diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with saturated aqueous NaHCO<sub>3</sub>, dried by anhydrous Na<sub>2</sub>SO<sub>4</sub> and concentrated in vacuo. The obtained residue was purified by silica gel column chromatography (1:1, Petroleum ether/ethyl acetate, v/v) to afford S27 (178 mg, 76%) as a white amorphous solid.

<sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 8.08$  (d, J = 7.8 Hz, 2H), 8.10 – 8.06 (m, 3H), 7.44 (t, J = 7.6 Hz, 2H), 7.40 (d, J = 5.9 Hz, 3H), 5.60 (s, 1H), 5.41 (t, J = 8.5 Hz, 1H), 4.72 (d, J = 8.0 Hz, 1H), 4.39 (d, J = 12.3 Hz, 1H), 4.29 (d, J = 3.7 Hz, 1H), 4.14 (d, J = 12.4 Hz, 1H), 4.10 – 4.04 (m, 1H), 3.92 (dd, J = 9.9, 3.6 Hz, 1H), 3.76 – 3.72 (m, 1H), 3.59 (s, 1H), 3.48 – 3.42 (m, 1H), 3.32 (dt, J = 13.1, 4.2 Hz, 1H), 1.55 (s, 1H). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 166.5$ , 137.4, 133.2, 130.1, 130.0, 129.5, 128.5, 128.4, 12 6.6, 101.7, 100.9, 75.7, 72.6, 72.0, 69.1, 67.7, 66.9, 50.9. HRMS (ESI) m/z Calcd for C<sub>22</sub>H<sub>27</sub>O7N4 [M + NH4]<sup>+</sup> 459.1874, found: 459.1878. Note: **S35** was synthesized by the (*p*-Tol)<sub>2</sub>SO/Tf<sub>2</sub>O preactivation strategy.

**S28** was synthesized according to the previously published procedure.<sup>[11]</sup>

#### Methyl 2-O-acetyl-4-O-benzyl-α-L-rhamnopyranoside (S28)<sup>[11]</sup>



<sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.36 (d, *J* = 4.2 Hz, 4H), 7.33 – 7.28 (m, 1H), 5.09 (dd, *J* = 3.4, 1.3 Hz, 1H), 4.83 (d, *J* = 11.1 Hz, 1H), 4.72 (d, *J* = 11.1 Hz, 1H), 4.62 (s, 1H), 4.09 (dd, *J* = 9.4, 3.6 Hz, 1H), 3.72 (dq, *J* = 9.5, 6.3 Hz, 1H), 3.37 – 3.32 (m, 4H), 2.15 (s, 3H), 1.36 (d, *J* = 6.3 Hz, 3H). The spectroscopic data coincided with the previous report.<sup>[11]</sup>

**Copper(II) trifluoromethanesulfonate** was purchased from Shanghai Aladdin Biochemical Technology Co., Ltd.

**Umemoto's reagent** (S-(Trifluoromethyl)dibenzothiophenium trifluoromethanesulfonate) was purchased from Innochem (Beijing) Technology Co., Ltd.

*p*-Tolyl Sulfoxide was purchased from TCI (Shanghai) Development Co., Ltd.

All photocatalysts were purchased from Shanghai Macklin Biochemical Technology Co., Ltd.

Solvents used for column chromatography were purchased from Bei Jing TongGuang Fine Chemicals Company.

## 3.3 General procedure (GP) for glycosidation reactions

**GP1**: To a mixture of thioglycoside donor **18** (1.0 equiv., 0.060 mmol), Umemoto's reagent (1.5 equiv.),  $Ir[dF(CF_3)ppy]_2(dtbbpy)PF_6$  (0.04 equiv.),  $Cu(OTf)_2$  (0-1.5 equiv.), acceptor **S1-S28** (1.5 equiv.) and activated 4Å powdered sieves (400 mg) in flame-dried glass vessel was added anhydrous MeCN/CH<sub>2</sub>Cl<sub>2</sub> mixed solvent (1.8 mL) under the N<sub>2</sub> atmosphere. The resulting mixture was stirred at -78°C for 15 min, followed by the irradiation of blue LED light (465nm) for 12h or overnight. The reaction mixture was quenched with the cessation of irradiation and Et<sub>3</sub>N (0.1 mL), diluted with CH<sub>2</sub>Cl<sub>2</sub>, filtered through diatomite, washed with water, dried by anhydrous MgSO<sub>4</sub> and concentrated to leave a residue which was purified by column chromatography on silica gel to afford target glycosides.

**GP2**: To a mixture of thioglycoside donor **18** (1.0 equiv., 0.060 mmol), Umemoto's reagent (1.5 equiv.),  $Ir[dF(CF_3)ppy]_2(dtbbpy)PF_6$  (0.04 equiv.),  $Cu(OTf)_2$  (0.5 or 1.5 equiv.), acceptor **S1-S28** (1.5 equiv.), (*p*-Tol)<sub>2</sub>SO (0-4.0 equiv.) and activated 4Å powdered sieves (400 mg) in flame-dried glass vessel was added anhydrous MeCN/CH<sub>2</sub>Cl<sub>2</sub> mixed solvent (1.8 mL) under the N<sub>2</sub> atmosphere. The resulting mixture was stirred at -30°C for 15 min, followed by the irradiation of blue LED light (465nm) for 12h or overnight. The reaction mixture was quenched with the cessation of irradiation and Et<sub>3</sub>N (0.3 mL), diluted with CH<sub>2</sub>Cl<sub>2</sub>, filtered through diatomite, washed with water, dried by anhydrous MgSO<sub>4</sub> and concentrated to leave a residue which was purified by column chromatography on silica gel to afford target glycosides.



(LED: 460-465nm, 0.2W per 5050 LED lamp bead)





GP1: 32.4 mg, 99% yield from **18**: a colorless oil. (Petroleum ether/ethyl acetate = 6:1, v/v) **36aβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.29 – 5.26 (m, 1H), 5.17 (dt, *J* = 9.6, 3.4 Hz, 1H), 4.87 (ddd, *J* = 13.2, 4.6, 3.0 Hz, 1H), 4.36 (d, *J* = 3.4 Hz, 2H), 4.25 (q, *J* = 7.1 Hz, 2H), 4.19 (dd, *J* = 9.6, 1.2 Hz, 1H), 3.73 (dt, *J* = 9.2, 6.5 Hz, 1H), 3.28 (dt, *J* = 9.2, 6.8 Hz, 1H), 2.36 (dd, *J* = 12.5, 4.4 Hz, 1H), 2.10 (s, 3H), 2.09 (s, 3H), 2.08 (t, *J* = 12.8 Hz, 1H), 1.99 (s, 3H), 1.98 (s, 3H), 1.54 (p, *J* = 6.8 Hz, 2H), 1.32 (t, *J* = 7.1 Hz, 3H), 1.26 (s, 10H), 0.87 (t, *J* = 6.8 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>): δ = 170.9, 170.7, 170.1, 169.9, 168.0 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.2 Hz, 151 MHz), 99.5, 70.7, 68.2, 67.3, 64.9, 64.2, 62.6, 62.1, 32.6, 31.9, 29.7, 29.4, 29.3, 26.0, 22.8, 21.0, 20.9, 20.8, 20.8, 14.3, 14.2.

HRMS (ESI) m/z Calcd for  $C_{26}H_{42}O_{12}Na [M + Na]^+$  569.2568, found: 569.2570.

#### Ethyl (1-Octyl 4,5,7,8-tetra-O-acetyl-3-deoxy-α-p-manno-oct-2-ulopyranosid)onate (36aα)



GP2: 21.1 mg, 64% yield from **18** to generate the mixture of **36a** $\beta$  and **36a** $\alpha$  (1:1.4): a pale-yellow oil. (Petroleum ether/ethyl acetate = 6:1, v/v)

The mixture of **36a** $\beta$  and **36a** $\alpha$  (1:1.4): <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.38 – 5.32 (m, 2.4H), 5.28 (s, 1H,  $\beta$ ), 5.23 (d, J = 9.8 Hz, 1.4H,  $\alpha$ ), 5.17 (dd, J = 8.1, 3.7 Hz, 1H,  $\beta$ ), 4.88 (dt, J = 13.2, 3.6 Hz, 1H,  $\beta$ ), 4.61 (d, J = 12.3 Hz, 1.4H,  $\alpha$ ), 4.40 – 4.32 (m, 2H,  $\beta$ ), 4.26 (q, J = 6.8 Hz, 4.8H), 4.19 (d, J = 9.5 Hz, 1H,  $\beta$ ), 4.15 (dd, J = 12.3, 3.4 Hz, 1.4H,  $\alpha$ ), 4.09 (d, J = 9.8 Hz, 1.4H,  $\alpha$ ), 3.74 (dd, J = 15.5, 6.7 Hz, 1H,  $\beta$ ), 3.46 (dd, J = 15.6, 6.7 Hz, 1.4H,  $\alpha$ ), 3.29 (dd, J = 15.4, 7.1 Hz, 2.4H), 2.37 (dd, J = 12.5, 4.6 Hz, 1H,  $\beta$ ), 2.20 – 2.16 (m, 1.4H,  $\alpha$ ), 2.10 (s, 3H), 2.09 (s, 3H), 2.07 (s, 4.2H), 2.06 (s, 4.2H), 2.07 – 2.00 (m, 2.4H), 2.00 (s, 3H), 1.99 (s, 4.2H), 1.98 (s, 3H), 1.97 (s, 4.2H), 1.59 – 1.52 (m, 4.8H), 1.36 – 1.24 (m, 31.2H), 0.88 (t, J = 6.9 Hz, 7.2H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.9, 170.6, 170.6, 170.6, 170.1, 170.1, 169.9, 169.8, 168.0 (**β**, C1,

 ${}^{3}J_{C-1/H-3ax} = 6.1$  Hz, 151 MHz), 167.5 ( $\alpha$ , C1,  ${}^{3}J_{C-1/H-3ax} = 0$  Hz, 151 MHz), 99.5, 98.8, 70.8, 68.3, 68.1, 67.9, 67.3, 66.7, 64.9, 64.6, 64.3, 64.2, 62.6, 62.2, 62.1, 62.0, 32.6, 32.3, 32.0, 29.7, 29.7, 29.6, 29.4, 29.4, 26.3, 26.1, 22.8, 22.8, 20.9, 20.9, 20.9, 20.9, 20.8, 20.8, 20.8, 20.8, 14.3, 14.3, 14.2, 14.2. HRMS (ESI) m/z Calcd for C<sub>26</sub>H<sub>42</sub>O<sub>12</sub>Na [M + Na]<sup>+</sup> 569.2568, found: 569.2572.

Ethyl [3-(carbobenzoxyamino)-1-propyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2ulopyranosid]onate (36bβ)



GP1: 35.3 mg, 94% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 2:1, v/v) **36bβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.37 – 7.32 (m, 4H), 7.32 – 7.29 (m, 1H), 5.29 – 5.27 (m, 1H), 5.22 (t, *J* = 5.1 Hz, 1H), 5.17 (ddd, *J* = 9.6, 4.3, 2.4 Hz, 1H), 5.13 – 5.07 (m, 2H), 4.89 (ddd, *J* = 13.2, 4.6, 3.0 Hz, 1H), 4.34 (qd, *J* = 12.4, 3.3 Hz, 2H), 4.24 (ddd, *J* = 14.2, 7.1, 2.7 Hz, 2H), 4.20 (d, *J* = 8.8 Hz, 1H), 3.85 (dt, *J* = 9.7, 5.7 Hz, 1H), 3.43 (dt, *J* = 9.8, 5.8 Hz, 1H), 3.35 – 3.27 (m, 2H), 2.34 (dd, *J* = 12.5, 4.5 Hz, 1H), 2.11 – 2.08 (m, 4H), 2.07 (s, 3H), 2.01 (s, 3H), 1.99 (s, 3H), 1.81 – 1.75 (m, 2H), 1.30 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 170.9$ , 170.6, 170.0, 169.9, 167.8 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.4 Hz, 101 MHz), 156.6, 136.9, 128.6, 128.3, 128.2, 99.4, 77.4, 70.9, 68.2, 67.2, 66.7, 64.1, 62.8, 62.5, 62.4, 38.7, 32.4, 29.4, 21.0, 20.9, 20.9, 20.8, 14.3.

HRMS (ESI) m/z Calcd for C<sub>29</sub>H<sub>40</sub>NO<sub>14</sub> [M + H]<sup>+</sup> 626.2443, found: 626.2437.

Ethyl (3-chloro-1-propyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (36cβ)



GP1: 28.3 mg, 93% yield from **18**: a colorless oil. (Petroleum ether/ethyl acetate = 4:1, v/v) **36cβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.29 – 5.26 (m, 1H), 5.17 (ddd, *J* = 9.5, 4.0, 2.8 Hz, 1H), 4.88 (ddd, *J* = 13.2, 4.6, 3.0 Hz, 1H), 4.40 – 4.34 (m, 2H), 4.27 (dtt, *J* = 10.8, 7.3, 3.6 Hz, 2H), 4.21 (dd, *J*  = 9.6, 1.3 Hz, 1H), 3.90 – 3.85 (m, 1H), 3.63 – 3.60 (m, 2H), 3.51 (ddd, *J* = 9.7, 7.6, 4.4 Hz, 1H), 2.36 (dd, *J* = 12.5, 4.6 Hz, 1H), 2.10 (s, 3H), 2.10 (s, 3H), 2.09 – 2.05 (m, 1H), 2.00 (s, 4H), 1.98 (s, 4H), 1.33 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.9$ , 170.6, 170.0, 169.9, 167.8 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.1 Hz, 151 MHz), 99.5, 70.9, 68.2, 67.2, 64.2, 62.5, 62.3, 61.1, 41.6, 32.7, 32.4, 20.9, 20.9, 20.8, 20.8, 14.3. HRMS (ESI) m/z Calcd for C<sub>21</sub>H<sub>31</sub>O<sub>12</sub>ClNa [M + Na]<sup>+</sup> 533.1396, found: 533.1390.

Ethyl (2-azidoethyl 4,5,7,8-tetra-O-acetyl-3-deoxy-β-D-manno-oct-2-ulopyranosid)onate (36dβ)



GP1: 28.4 mg, 94% yield from **18**: a colorless oil. (Petroleum ether/ethyl acetate = 4:1, v/v) **30dβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.28 (s, 1H), 5.18 (ddd, *J* = 9.6, 4.3, 2.0 Hz, 1H), 4.91 (ddd, *J* = 13.1, 4.4, 3.2 Hz, 1H), 4.41 (dd, *J* = 12.4, 4.5 Hz, 1H), 4.32 (dd, *J* = 12.5, 2.0 Hz, 1H), 4.28 (q, *J* = 7.2 Hz, 2H), 4.20 (d, *J* = 9.6 Hz, 1H), 3.97 (ddd, *J* = 10.3, 5.7, 3.2 Hz, 1H), 3.57 (ddd, *J* = 10.6, 7.4, 3.2 Hz, 1H), 3.39 (ddd, *J* = 13.1, 7.4, 3.2 Hz, 1H), 3.30 (ddd, *J* = 13.3, 5.6, 3.2 Hz, 1H), 2.42 (dd, *J* = 12.6, 4.6 Hz, 1H), 2.14 (t, *J* = 12.9 Hz, 1H), 2.11 (s, 3H), 2.09 (s, 3H), 2.01 (s, 3H), 1.98 (s, 3H), 1.34 (t, *J* = 7.2 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.9$ , 170.6, 170.0, 169.9, 167.5 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.1 Hz, 151 MHz), 99.4, 71.0, 68.2, 67.1, 64.1, 63.9, 62.4, 62.4, 50.6, 32.4, 21.0, 20.9, 20.8, 20.8, 14.3.

HRMS (ESI) m/z Calcd for  $C_{20}H_{29}N_3O_{12}Na$  [M + Na]<sup>+</sup> 526.1643, found: 526.1640.

Ethyl [methyl-*N*-(*tert*-butoxycarbonyl)-<sub>L</sub>-serinate 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid]onate (36eβ)



GP1: 35.8 mg, 94% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 1:1, v/v) **36eβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.35 (d, *J* = 8.8 Hz, 1H), 5.26 (s, 1H), 5.12 (dt, *J* = 9.4, 3.2 Hz, 1H), 4.88 (dd, *J* = 9.7, 3.3 Hz, 1H), 4.41 (d, *J* = 8.8 Hz, 1H), 4.35 (d, *J* = 2.7 Hz, 2H), 4.25 (dd, *J* = 14.3, 7.1 Hz, 2H), 4.20 (dd, *J* = 13.5, 6.0 Hz, 2H), 3.77 (s, 3H), 3.59 (dd, *J* = 9.9, 2.7 Hz, 1H), 2.32 (dd, *J* = 12.6, 4.4 Hz, 1H), 2.09 (s, 3H), 2.07 (s, 3H), 2.07 (t, *J* = 9.2 Hz, 1H), 1.99 (s, 3H), 1.96 (s, 3H), 1.44 (s, 9H), 1.33 (t, *J* = 7.2 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 170.8$ , 170.7, 170.5, 170.0, 169.9, 167.4 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.8 Hz, 101 MHz), 155.4, 99.1, 80.2, 71.0, 68.0, 67.0, 65.1, 64.0, 62.5, 62.3, 60.5, 53.6, 52.6, 32.2, 28.4, 20.9, 20.8, 20.8, 20.8, 14.3, 14.2.

HRMS (ESI) m/z Calcd for  $C_{27}H_{42}NO_{16}$  [M + H]<sup>+</sup> 636.2498, found: 636.2491.

## Ethyl (6-hydroxyl-hexyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (36fβ)



GP1: 25.0 mg, 78% yield from **18** to generate **36f** $\beta$ : a pale-yellow oil (Petroleum ether/ethyl acetate = 1:1, v/v); while 6.0 mg, 21% yield from **18** to generate **36u** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 3:1, v/v).

**36fβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 5.28 (s, 1H), 5.18 (ddd, *J* = 9.6, 4.1, 3.0 Hz, 1H), 4.92 – 4.85 (m, 1H), 4.37 (t, *J* = 2.8 Hz, 2H), 4.27 (qd, *J* = 7.1, 1.6 Hz, 2H), 4.19 (dd, *J* = 9.6, 1.2 Hz, 1H), 3.75 (dq, *J* = 9.1, 6.4 Hz, 1H), 3.64 (t, *J* = 6.5 Hz, 2H), 3.31 (ddd, *J* = 11.1, 9.4, 5.6 Hz, 1H), 2.37 (dd, *J* = 12.2, 4.2 Hz, 1H), 2.11 (s, 3H), 2.10 (s, 3H), 2.09 – 2.07 (m, 1H), 2.01 (s, 3H), 1.98 (s, 3H), 1.60 – 1.54 (m, 4H), 1.39 (ddd, *J* = 17.5, 8.6, 5.2 Hz, 4H), 1.33 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 171.0, 170.6, 170.1, 170.0, 168.0 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.2 Hz, 151 MHz), 99.5, 70.8, 68.3, 67.3, 64.7, 64.3, 63.0, 62.1, 32.8, 32.6, 29.6, 25.8, 25.5, 21.0, 20.9, 20.8, 20.8, 14.4. HRMS (ESI) m/z Calcd for C<sub>24</sub>H<sub>38</sub>O<sub>13</sub>Na [M + Na]<sup>+</sup> 557.2204, found: 557.2210.

#### Ethyl (3-butynyl 4,5,7,8-tetra-O-acetyl-3-deoxy-β-D-manno-oct-2-ulopyranosid)onate (36gβ)



GP1: 28.9 mg, 99% yield from **18**: a colorless oil. (Petroleum ether/ethyl acetate = 4:1, v/v) **36gβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.28 (s, 1H), 5.17 (ddd, *J* = 9.4, 4.2, 2.4 Hz, 1H), 4.89 (ddd, *J* = 13.1, 4.2, 3.3 Hz, 1H), 4.36 (qd, *J* = 12.3, 3.3 Hz, 2H), 4.27 (q, *J* = 7.1 Hz, 2H), 4.18 (d, *J* = 9.4 Hz, 1H), 3.86 (dt, *J* = 9.0, 6.9 Hz, 1H), 3.50 (dt, *J* = 9.1, 7.3 Hz, 1H), 2.49 – 2.44 (m, 2H), 2.39 (dd, *J* = 12.5, 4.6 Hz, 1H), 2.10 (s, 3H), 2.12 – 2.08 (m, 1H), 2.10 (s, 3H), 2.00 (s, 3H), 1.98 (s, 3H), 1.99 – 1.96 (m, 1H), 1.33 (t, *J* = 7.1 Hz, 3H). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.9, 170.6, 170.0, 169.9, 167.7 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.2 Hz, 151 MHz),

99.5, 80.7, 71.0, 69.7, 68.2, 67.2, 64.2, 62.9, 62.5, 62.3, 32.4, 20.9, 20.9, 20.8, 20.1, 14.3. HRMS (ESI) m/z Calcd for C<sub>22</sub>H<sub>30</sub>O<sub>12</sub>Na [M + Na]<sup>+</sup> 509.1629, found: 509.1633.

## Ethyl (5-chloro-pentyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (36hβ)



GP1: 30.6 mg, 95% yield from **18**: a colorless oil. (Petroleum ether/ethyl acetate = 4:1, v/v) **36hβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.28 – 5.26 (m, 1H), 5.17 (dt, *J* = 9.5, 3.4 Hz, 1H), 4.87 (ddd, *J* = 13.2, 4.6, 3.0 Hz, 1H), 4.35 (d, *J* = 3.5 Hz, 2H), 4.26 (qd, *J* = 7.1, 1.4 Hz, 2H), 4.19 (dd, *J* = 9.6, 1.4 Hz, 1H), 3.76 (dt, *J* = 9.3, 6.2 Hz, 1H), 3.53 (t, *J* = 6.7 Hz, 2H), 3.31 (dt, *J* = 9.3, 6.4 Hz, 1H), 2.36 (ddd, *J* = 12.4, 4.5, 0.7 Hz, 1H), 2.10 (s, 3H), 2.09 (s, 3H), 2.09 – 2.06 (m, 1H), 2.00 (s, 3H), 1.98 (s, 3H), 1.81 – 1.75 (m, 2H), 1.61 – 1.55 (m, 2H), 1.53 – 1.44 (m, 2H), 1.32 (t, *J* = 7.2 Hz, 3H). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.9, 170.6, 170.0, 169.9, 167.9 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.2 Hz, 151 MHz), 99.5, 70.8, 68.2, 67.3, 64.4, 64.2, 62.6, 62.1, 45.0, 32.6, 32.4, 28.9, 23.6, 20.9, 20.9, 20.8, 20.8, 14.3. HRMS (ESI) m/z Calcd for C<sub>23</sub>H<sub>35</sub>O<sub>12</sub>ClNa [M + Na]<sup>+</sup> 561.1709, found: 561.1708.

#### Ethyl (benzyl 4,5,7,8-tetra-O-acetyl-3-deoxy-β-D-manno-oct-2-ulopyranosid)onate (36iβ)





**36iβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 7.35 – 7.27 (m, 5H), 5.32 – 5.29 (m, 1H), 5.21 (ddd, *J* = 9.6, 4.4, 2.4 Hz, 1H), 4.92 (ddd, *J* = 13.2, 4.6, 3.0 Hz, 1H), 4.81 (d, *J* = 11.6 Hz, 1H), 4.48 – 4.36 (m, 3H), 4.28 – 4.24 (m, 1H), 4.24 – 4.14 (m, 2H), 2.45 (ddd, *J* = 12.5, 4.6, 0.9 Hz, 1H), 2.18 (t, *J* = 12.9 Hz, 1H), 2.12 (s, 3H), 2.10 (s, 3H), 2.01 (s, 3H), 1.99 (s, 3H), 1.29 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>): δ = 170.9, 170.6, 170.1, 169.9, 167.9 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.4 Hz, 101 MHz), 137.2, 128.5, 128.0, 128.0, 99.4, 70.9, 68.2, 67.2, 66.7, 64.2, 62.5, 62.2, 32.6, 21.0, 20.9, 20.9, 20.8, 14.3.

HRMS (ESI) m/z Calcd for  $C_{25}H_{32}O_{12}Na [M + Na]^+$  547.1785, found: 547.1785.

#### Ethyl (benzyl 4,5,7,8-tetra-O-acetyl-3-deoxy-α-D-manno-oct-2-ulopyranosid)onate (36iα)



GP2: 14.1 mg, 44% yield from **18** to generate **36i** $\beta$ : a colorless oil (Petroleum ether/ethyl acetate = 4:1, v/v); while 13.6 mg, 44% yield from **18** to generate **36i** $\alpha$ : a colorless oil (Petroleum ether/ethyl acetate = 4:1, v/v).

**36ia:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 7.39 – 7.30 (m, 5H), 5.40 (t, *J* = 7.4 Hz, 2H), 5.26 (dd, *J* = 9.9, 2.5 Hz, 1H), 4.64 (dd, *J* = 12.3, 2.1 Hz, 1H), 4.57 (d, *J* = 11.6 Hz, 1H), 4.45 (d, *J* = 11.5 Hz, 1H), 4.27 – 4.19 (m, 4H), 2.29 (dd, *J* = 12.7, 4.5 Hz, 1H), 2.11 – 2.09 (m, 4H), 1.99 (s, 3H), 1.98 (s, 3H), 1.91 (s, 3H), 1.30 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.6, 170.6, 170.1, 169.8, 167.2 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 136.9, 128.7, 128.1, 127.4, 98.9, 68.4, 67.8, 66.6, 65.8, 64.5, 62.2, 62.1, 32.2, 20.9, 20.8, 20.7, 14.2. HRMS (ESI) m/z Calcd for C<sub>25</sub>H<sub>32</sub>O<sub>12</sub>Na [M + Na]<sup>+</sup> 547.1785, found: 547.1790.

Ethyl (3,5-di-tert-butylbenzyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2ulopyranosid)onate (36jβ)



GP1: 38.0 mg, 99% yield from 18: a pale-yellow oil. (Petroleum ether/ethyl acetate = 6:1, v/v)

**36j**β: <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 7.35 (t, *J* = 1.8 Hz, 1H), 7.17 (d, *J* = 1.8 Hz, 2H), 5.32 – 5.30 (m, 1H), 5.22 (ddd, *J* = 9.6, 4.4, 2.3 Hz, 1H), 4.94 (ddd, *J* = 13.2, 4.6, 3.0 Hz, 1H), 4.79 (d, *J* = 11.5 Hz, 1H), 4.47 (d, *J* = 11.5 Hz, 1H), 4.44 (dd, *J* = 12.3, 4.5 Hz, 1H), 4.38 (dd, *J* = 12.3, 2.3 Hz, 1H), 4.27 (dd, *J* = 9.6, 1.4 Hz, 1H), 4.25 – 4.17 (m, 2H), 2.50 – 2.44 (m, 1H), 2.20 (t, *J* = 12.9 Hz, 1H), 2.12 (s, 3H), 2.10 (s, 3H), 2.02 (s, 3H), 1.99 (s, 3H), 1.32 (s, 18H), 1.30 (t, *J* = 7.2 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.8$ , 170.6, 170.0, 169.9, 168.0 (C1,  ${}^{3}J_{C-1/H-3ax} = 6.1$  Hz, 151 MHz), 150.8, 136.3, 122.3, 122.1, 99.5, 70.9, 68.3, 67.4, 67.3, 64.3, 62.5, 62.1, 34.9, 32.7, 31.6, 20.9, 20.9, 20.8, 20.8, 14.3.

HRMS (ESI) m/z Calcd for C<sub>33</sub>H<sub>48</sub>O<sub>12</sub>Na [M + Na]<sup>+</sup> 659.3037, found: 659.3033.

#### Ethyl (L-menthyl 4,5,7,8-tetra-O-acetyl-3-deoxy-β-D-manno-oct-2-ulopyranosid)onate (36kβ)



GP1: 34.0 mg, 99% yield from **18**: a pale-yellow syrup. (Petroleum ether/ethyl acetate = 6:1, v/v) **36kβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.26 (s, 1H), 5.14 – 5.03 (m, 1H), 4.90 – 4.80 (m, 1H), 4.47 (d, *J* = 12.2 Hz, 1H), 4.34 – 4.17 (m, 3H), 3.98 (d, *J* = 9.5 Hz, 1H), 3.83 (td, *J* = 10.5, 4.0 Hz, 1H), 2.42 (dd, *J* = 12.4, 4.6 Hz, 1H), 2.17 (dd, *J* = 13.3, 6.4 Hz, 1H), 2.11 – 2.04 (m, 7H), 1.98 (s, 3H), 1.98 (s, 3H), 1.71 – 1.60 (m, 2H), 1.33 (t, *J* = 7.0 Hz, 3H), 1.28 – 1.12 (m, 2H), 0.98 – 0.82 (m, 10H), 0.76 (d, *J* = 6.8 Hz, 3H). <sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.8, 170.6, 170.1, 169.9, 168.7 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.7 Hz, 101 MHz), 98.0, 74.1, 70.8, 68.1, 67.4, 64.2, 62.7, 62.1, 48.5, 42.2, 34.3, 32.9, 31.6, 25.3, 23.4, 22.4, 21.3, 20.9, 20.9, 20.8, 20.7, 16.5, 14.2.

HRMS (ESI) m/z Calcd for  $C_{28}H_{44}O_{12}Na [M + Na]^+$  595.2724, found: 595.2720.

#### Ethyl (L-menthyl 4,5,7,8-tetra-O-acetyl-3-deoxy-α-D-manno-oct-2-ulopyranosid)onate (36kα)



GP2: 5.2 mg, 15% yield from **18** to generate **36k** $\beta$ : a colorless oil (Petroleum ether/ethyl acetate = 6:1, v/v); while 25.8 mg, 75% yield from **18** to generate **36k** $\alpha$ : a colorless oil (Petroleum ether/ethyl acetate = 6:1, v/v).

**36kα:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 5.39 – 5.32 (m, 2H), 5.24 (ddd, *J* = 9.4, 5.2, 2.6 Hz, 1H), 4.70 (dd, *J* = 12.1, 2.4 Hz, 1H), 4.41 – 4.34 (m, 1H), 4.31 (d, *J* = 9.6 Hz, 1H), 4.19 (dq, *J* = 11.0, 7.1 Hz, 1H), 4.03 (dd, *J* = 12.1, 5.3 Hz, 1H), 3.31 (td, *J* = 10.5, 4.2 Hz, 1H), 2.25 (dd, *J* = 11.8, 4.2 Hz, 1H), 2.16 – 2.10 (m, 1H), 2.06 (s, 3H), 2.06 (s, 3H), 2.01 – 1.95 (m, 7H), 1.66 – 1.58 (m, 2H), 1.33 (t, *J* = 7.1 Hz, 3H), 1.30 – 1.20 (m, 2H), 1.01 – 0.91 (m, 2H), 0.88 (dd, *J* = 6.7, 2.8 Hz, 6H), 0.86 – 0.75 (m, 2H), 0.71 (d, *J* = 6.9 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.7, 170.6, 170.3, 169.8, 167.0 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 100.1, 78.5, 68.7, 68.4, 66.9, 64.9, 62.5, 61.9, 48.3, 42.2, 34.4, 33.7, 31.4, 25.8, 23.5, 22.3, 21.0, 21.0, 21.0, 20.8, 20.8, 16.3, 14.2.

HRMS (ESI) m/z Calcd for C<sub>28</sub>H<sub>44</sub>O<sub>12</sub>Na [M + Na]<sup>+</sup> 595.2724, found: 595.2730.

Ethyl (adamantan-2-yl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (361β)<sup>[25]</sup>



GP1: 28.5 mg, 84% yield from **18**: a pale-yellow syrup. (Petroleum ether/ethyl acetate = 6:1, v/v) **36**[ $\beta$ : <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.26 (s, 1H), 5.13 (ddd, *J* = 9.4, 4.6, 2.2 Hz, 1H), 4.90 – 4.84 (m, 1H), 4.37 (dd, *J* = 12.2, 2.0 Hz, 1H), 4.29 (dd, *J* = 12.3, 4.7 Hz, 1H), 4.23 (dddd, *J* = 17.9, 10.8, 7.2, 3.6 Hz, 2H), 4.13 (d, *J* = 9.6 Hz, 1H), 3.91 (s, 1H), 2.40 (dd, *J* = 12.5, 4.5 Hz, 1H), 2.15 – 2.08 (m, 9H), 2.00 (s, 3H), 1.98 (s, 3H), 1.82 – 1.75 (m, 4H), 1.70 (d, *J* = 14.5 Hz, 4H), 1.62 (d, *J* = 11.5 Hz, 2H), 1.50 – 1.44 (m, 2H), 1.31 (t, *J* = 7.1 Hz, 3H). The spectroscopic data coincided with the previous report.<sup>[25]</sup>

Ethyl (adamantan-2-yl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-α-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (36lα)<sup>[25]</sup>



GP2: 22.9 mg, 67% yield from **18** to generate the mixture of **36l** $\beta$  and **36l** $\alpha$  (1:4): a pale-yellow syrup. (Petroleum ether/ethyl acetate = 6:1, v/v)

The mixture of **361** $\beta$  and **361** $\alpha$  (1:4): <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 5.39 - 5.33$  (m, 2H,  $\alpha$ ), 5.26 (s, 0.25H,  $\beta$ ), 5.18 (dt, J = 9.7, 2.9 Hz, 1H,  $\alpha$ ), 5.13 (ddd, J = 9.4, 4.5, 2.1 Hz, 0.25H,  $\beta$ ), 4.90 - 4.84 (m, 0.25H,  $\beta$ ), 4.68 (dd, J = 12.3, 2.6 Hz, 1H,  $\alpha$ ), 4.37 (dd, J = 12.2, 1.9 Hz, 0.25H,  $\beta$ ), 4.31 - 4.08 (m, 5H), 3.92 (s, 0.25H,  $\beta$ ), 3.89 (s, 1H,  $\alpha$ ), 2.40 (dd, J = 12.4, 4.6 Hz, 0.25H,  $\beta$ ), 2.33 (dd, J = 12.7, 4.7 Hz, 1H,  $\alpha$ ), 2.13 - 1.94 (m, 18.75H), 1.84 - 1.41 (m, 15H), 1.29 (t, J = 7.3 Hz, 3.75H).

The spectroscopic data coincided with the previous report.<sup>[25]</sup>

## Ethyl (epiandrosteroneyl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (36mβ)



GP1: 38.2 mg, 90% yield from **18**: a pale-yellow syrup. (Petroleum ether/ethyl acetate = 4:1, v/v) **36mβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.25 (d, *J* = 1.0 Hz, 1H), 5.15 (ddd, *J* = 9.5, 4.2, 2.5 Hz, 1H), 4.87 - 4.82 (m, 1H), 4.39 - 4.31 (m, 2H), 4.29 - 4.21 (m, 2H), 4.14 (d, *J* = 9.6 Hz, 1H), 3.76 - 3.64 (m, 1H), 2.42 (dd, *J* = 19.3, 8.8 Hz, 1H), 2.36 (dd, *J* = 12.4, 4.5 Hz, 1H), 2.10 (s, 3H), 2.09 - 2.07 (m, 4H), 2.04 - 2.02 (m, 1H), 1.99 (s, 3H), 1.98 (s, 3H), 1.94 - 1.85 (m, 2H), 1.79 - 1.74 (m, 2H), 1.69 (dt, *J* = 13.2, 3.3 Hz, 1H), 1.64 (dd, *J* = 13.3, 3.1 Hz, 1H), 1.56 - 1.44 (m, 3H), 1.32 (t, *J* = 7.2 Hz, 3H), 1.29 - 1.19 (m, 6H), 1.09 - 1.04 (m, 1H), 0.97 (dt, *J* = 11.1, 9.1 Hz, 2H), 0.86 (dd, *J* = 13.3, 6.0 Hz, 1H), 0.84 (s, 3H), 0.80 (s, 3H), 0.68 (td, *J* = 11.8, 3.8 Hz, 1H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 221.5$ , 170.8, 170.7, 170.1, 170.0, 168.4 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.3 Hz, 151 MHz), 99.7, 75.3, 70.7, 68.3, 67.3, 64.2, 62.6, 62.0, 54.3, 51.5, 47.9, 45.0, 37.1, 36.0, 35.8, 35.7, 35.1, 33.0, 31.6, 30.9, 30.6, 28.6, 21.9, 21.0, 20.9, 20.8, 20.6, 14.3, 13.9, 12.3.

HRMS (ESI) m/z Calcd for C<sub>37</sub>H<sub>54</sub>O<sub>13</sub>Na [M + Na]<sup>+</sup> 729.3456, found: 729.3454.

Ethyl (dihydrocholesteryl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (36nβ)



GP1: 22.9 mg, 47% yield from **18**: a white amorphous solid. (Petroleum ether/ethyl acetate = 6:1, v/v) **36nβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.26 (s, 1H), 5.15 (ddd, *J* = 9.5, 4.5, 2.4 Hz, 1H), 4.85 (ddd, *J* = 13.1, 4.5, 3.0 Hz, 1H), 4.36 (qd, *J* = 12.3, 3.4 Hz, 2H), 4.30 – 4.22 (m, 2H), 4.16 (dd, *J* = 9.5, 1.2 Hz, 1H), 3.68 (ddd, *J* = 15.7, 10.7, 5.4 Hz, 1H), 2.36 (dd, *J* = 12.4, 4.5 Hz, 1H), 2.11 (s, 3H), 2.09 (s, 3H), 2.08 – 2.02 (m, 2H), 2.00 (s, 3H), 1.98 (s, 3H), 1.33 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.8, 170.7, 170.1, 170.0, 168.4 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.9 Hz, 101 MHz), 99.7, 77.4, 75.6, 70.7, 68.3, 67.3, 64.2, 62.6, 62.0, 56.5, 56.4, 54.2, 45.1, 42.7, 40.1, 39.7, 37.2, 36.3, 36.0, 35.6, 35.5, 33.0, 32.1, 30.6, 29.0, 28.4, 28.2, 24.4, 24.0, 23.0, 22.7, 21.3, 21.0, 20.9, 20.9, 18.8, 14.3, 12.3, 12.2.

HRMS (ESI) m/z Calcd for C45H73O12 [M + H]<sup>+</sup> 805.5096, found: 805.5096.

Ethyl (adamantan-1-yl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (360β)<sup>[25]</sup>



GP1: 21.8 mg, 64% yield from **18** to generate **360** $\beta$ : a colorless oil (Petroleum ether/ethyl acetate = 6:1, v/v); while 7.8 mg, 23% yield from **18** to generate **360** $\alpha$ : a colorless oil (Petroleum ether/ethyl acetate = 5:1, v/v).

**3606**: <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 5.26$  (d, J = 1.0 Hz, 1H), 5.17 (ddd, J = 7.0, 4.6, 1.5 Hz, 1H), 4.82 – 4.75 (m, 1H), 4.47 (t, J = 10.6 Hz, 2H), 4.31 (dd, J = 12.4, 5.2 Hz, 1H), 4.29 – 4.24 (m, 1H), 4.23 – 4.18 (m, 1H), 2.29 (dd, J = 12.5, 4.4 Hz, 1H), 2.13 – 2.09 (m, 6H), 2.09 (s, 4H), 2.00 (s, 3H), 1.96 (s, 3H), 1.88 (d, J = 2.2 Hz, 6H), 1.58 (s, 6H), 1.34 (t, J = 7.1 Hz, 3H). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.8$ , 170.7, 170.7, 170.1, 170.0 (C1, <sup>3</sup> $J_{C-1/H-3ax} = 5.8$  Hz, 101 MHz), 98.6, 78.9, 71.2, 68.4, 67.0, 64.4, 63.1, 61.8, 43.6, 36.3, 35.3, 31.2, 20.9, 20.9, 20.9, 20.8, 14.2. The spectroscopic data coincided with the previous report.<sup>[25]</sup>

Ethyl (adamantan-1-yl 4,5,7,8-tetra-*O*-acetyl-3-deoxy-α-<sub>D</sub>-manno-oct-2-ulopyranosid)onate (360α)<sup>[3]</sup>



GP2: 2.4 mg, 7% yield from **18** to generate **360** $\beta$ : a colorless oil (Petroleum ether/ethyl acetate = 6:1, v/v); while 31.4 mg, 92% yield from **18** to generate **360** $\alpha$ : a colorless oil (Petroleum ether/ethyl acetate = 5:1, v/v).

**36οα:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 5.38 – 5.32 (m, 2H), 5.22 (dt, *J* = 9.3, 2.7 Hz, 1H), 4.66 (dd, *J* = 12.2, 2.2 Hz, 1H), 4.34 (d, *J* = 9.7 Hz, 1H), 4.32 – 4.18 (m, 2H), 4.14 (dd, *J* = 12.2, 3.5 Hz, 1H), 2.18 (dd, *J* = 12.3, 4.2 Hz, 1H), 2.11 – 2.05 (m, 9H), 1.99 – 1.94 (m, 6H), 1.86 (s, 6H), 1.58 (q, *J* = 12.4 Hz, 6H), 1.34 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.6, 170.6, 170.2, 169.9, 169.7 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 97.4, 78.0, 68.7, 68.6, 66.8, 65.0, 61.9, 61.8, 42.8, 36.2, 35.0, 31.1, 21.0, 20.9, 20.8, 20.8, 14.1. The spectroscopic data coincided with the previous report.<sup>[3]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2→6)-methyl 2,3,4tri-*O*-benzyl-α-<sub>D</sub>-glucopyranoside (36pβ)



GP1: 48.6 mg, 92% yield from 18: a white amorphous solid. (Petroleum ether/ethyl acetate = 3:1, v/v)

**36pβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.39 - 7.27$  (m, 15H), 5.26 (d, J = 1.0 Hz, 1H), 5.16 (ddd, J = 9.5, 4.1, 2.4 Hz, 1H), 4.96 (d, J = 10.7 Hz, 1H), 4.92 – 4.85 (m, 2H), 4.79 (dd, J = 11.4, 4.3 Hz, 2H), 4.68 (s, 1H), 4.66 – 4.59 (m, 2H), 4.32 (dd, J = 12.3, 2.3 Hz, 1H), 4.26 (dd, J = 12.3, 4.3 Hz, 1H), 4.18 (ddd, J = 14.5, 9.0, 5.5 Hz, 1H), 4.08 – 4.04 (m, 1H), 4.00 (dt, J = 12.8, 8.6 Hz, 3H), 3.78 (dd, J = 10.2, 3.7 Hz, 1H), 3.57 (dd, J = 10.4, 5.2 Hz, 1H), 3.54 – 3.49 (m, 1H), 3.49 – 3.41 (m, 1H), 3.39 (s, 3H), 2.40 (dd, J = 12.3, 4.6 Hz, 1H), 2.13 (dd, J = 11.7, 5.1 Hz, 1H), 2.07 (s, 6H), 1.98 (s, 3H), 1.98 (s, 3H), 1.19 (t, J = 7.2 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.7, 170.6, 170.0, 169.8, 167.3 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.6 Hz, 151 MHz), 138.8, 138.5, 138.3, 128.6, 128.5, 128.5, 128.2, 128.1, 128.0, 127.8, 127.7, 127.6, 99.6, 98.0, 82.3, 80.0, 77.4, 75.9, 74.6, 73.5, 70.8, 69.6, 68.1, 67.3, 64.1, 63.5, 62.3, 62.2, 55.2, 32.3, 20.9, 20.9, 20.8, 20.8, 14.2.

HRMS (ESI) m/z Calcd for C46H57O17 [M + H]<sup>+</sup> 881.3590, found: 881.3597.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2,3, 4-tri-*O*-benzyl- $\alpha$ -D-glucopyranoside (36p $\alpha$ )<sup>[3]</sup>



**36**pα

GP2: 37.0 mg, 70% yield from 18: a white amorphous solid. (Petroleum ether/ethyl acetate = 3:1, v/v)

**36pa:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 7.37 - 7.26$  (m, 15H), 5.34 - 5.29 (m, 2H), 5.18 (ddd, J = 9.4, 4.3, 2.4 Hz, 1H), 4.99 (d, J = 10.8 Hz, 1H), 4.92 (d, J = 11.2 Hz, 1H), 4.80 (dd, J = 11.4, 8.7 Hz, 1H), 4.67 (d, J = 12.1 Hz, 1H), 4.57 (d, J = 3.6 Hz, 1H), 4.54 - 4.49 (m, 2H), 4.20 - 4.11 (m, 3H), 4.08 (dd, J = 12.3, 4.4 Hz, 1H), 3.99 (t, J = 9.2 Hz, 1H), 3.86 - 3.79 (m, 1H), 3.66 (d, J = 9.9 Hz, 1H), 3.49 - 3.43 (m, 2H), 3.42 (s, 3H), 3.27 - 3.21 (m, 1H), 2.16 (dd, J = 12.5, 5.2 Hz, 1H), 2.09 - 2.02 (m, 4H), 1.98 (s, 3H), 1.96 (s, 3H), 1.88 (s, 3H), 1.21 (t, J = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.6, 170.5, 170.0, 169.8, 166.8 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 138.7, 138.2, 128.6, 128.6, 128.5, 128.2, 128.1, 127.9, 127.8, 127.8, 98.4, 97.8, 82.4, 79.9, 78.5, 75.9, 75.2, 73.4, 69.7, 68.4, 68.1, 66.5, 64.7, 63.6, 62.2, 62.0, 55.2, 32.0, 20.9, 20.8, 20.8, 14.2.

The spectroscopic data coincided with the previous report.<sup>[3]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2,3,4 -tri-*O*-benzoyl- $\alpha$ -D-glucopyranoside (36q $\beta$ )



GP1: 48.6 mg, 88% yield from **18**: a white amorphous solid. (Petroleum ether/ethyl acetate = 2:1, v/v) **36qβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.99 – 7.95 (m, 2H), 7.94 – 7.91 (m, 2H), 7.88 – 7.84 (m, 2H), 7.50 (t, J = 7.4 Hz, 2H), 7.43 – 7.39 (m, 1H), 7.38 – 7.35 (m, 4H), 7.28 (t, J = 7.9 Hz, 2H), 6.11 (t, J = 9.7 Hz, 1H), 5.56 – 5.50 (m, 1H), 5.24 (dt, J = 6.7, 3.7 Hz, 3H), 5.11 (ddd, J = 9.6, 4.2, 2.3 Hz, 1H), 4.88 (ddd, J = 13.1, 4.6, 3.0 Hz, 1H), 4.29 – 4.23 (m, 2H), 4.19 (dd, J = 12.3, 4.3 Hz, 1H), 4.13 – 4.09 (m, 1H), 4.03 (dd, J = 9.6, 1.3 Hz, 1H), 4.00 (dd, J = 11.1, 2.3 Hz, 1H), 3.92 (dq, J = 10.7, 7.1 Hz, 1H), 3.67 (dd, J = 11.1, 5.8 Hz, 1H), 3.49 (s, 3H), 2.46 – 2.39 (m, 1H), 2.10 (t, J = 12.6 Hz, 1H), 2.07 (s, 3H), 2.03 (s, 3H), 1.97 (s, 3H), 1.96 (s, 3H), 1.17 (t, J = 7.2 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.6, 170.6, 167.0, 169.8, 167.0, 166.0, 165.9, 165.2 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.3 Hz, 151 MHz), 133.5, 133.2, 130.0, 129.9, 129.8, 129.4, 129.2, 129.2, 128.5, 128.4, 99.5, 97.0, 77.4, 72.2, 70.8, 70.8, 69.3, 68.5, 68.1, 67.2, 64.1, 63.3, 62.2, 62.1, 55.6, 32.4, 20.9, 20.8, 20.8, 14.1. HRMS (ESI) m/z Calcd for C<sub>46</sub>H<sub>50</sub>O<sub>20</sub>Na [M + Na]<sup>+</sup> 945.2787, found: 945.2782.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2,3, 4-tri-*O*-benzoyl- $\alpha$ -<sub>D</sub>-glucopyranoside (36q $\alpha$ )



GP2: 10.0 mg, 18% yield from **18** to generate **36q** $\beta$ : a white amorphous solid (Petroleum ether/ethyl acetate = 2:1, v/v); while 39.8 mg, 72% yield from **18** to generate **36q** $\alpha$ : a colorless syrup (Petroleum ether/ethyl acetate = 3:1, v/v).

**36qα:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 7.97 (ddd, *J* = 13.1, 8.1, 1.0 Hz, 4H), 7.85 (dd, *J* = 8.2, 1.0 Hz, 2H), 7.53 – 7.50 (m, 2H), 7.42 (t, *J* = 7.5 Hz, 1H), 7.39 – 7.36 (m, 4H), 7.28 (t, *J* = 7.8 Hz, 2H), 6.16 (t, *J* = 9.8 Hz, 1H), 5.45 – 5.38 (m, 2H), 5.36 (d, *J* = 1.1 Hz, 1H), 5.26 – 5.21 (m, 2H), 5.19 (ddd, *J* = 9.4, 4.4, 2.5 Hz, 1H), 4.63 (dd, *J* = 12.3, 2.4 Hz, 1H), 4.28 – 4.25 (m, 1H), 4.20 (dd, *J* = 9.5, 1.3
Hz, 1H), 4.15 (dq, *J* = 10.8, 3.7 Hz, 2H), 4.04 (dd, *J* = 12.3, 4.5 Hz, 1H), 3.72 (dd, *J* = 10.8, 7.4 Hz, 1H), 3.62 (dd, *J* = 10.8, 2.0 Hz, 1H), 3.51 (s, 3H), 2.13 (dd, *J* = 12.7, 5.2 Hz, 1H), 2.08 (s, 3H), 2.08 – 2.06 (m, 4H), 2.02 (s, 3H), 1.97 (s, 3H), 1.16 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 170.6$ , 170.6, 167.0, 169.9, 166.8 (C1,  ${}^{3}J_{C-1/H-3ax} = 0$  Hz, 101 MHz), 166.0, 165.9, 165.5, 133.6, 133.6, 133.3, 130.1, 130.0, 129.8, 129.2, 129.1, 128.9, 128.6, 128.4, 98.6, 96.9, 72.2, 70.4, 69.8, 68.8, 68.7, 68.0, 66.4, 64.7, 63.1, 62.2, 62.1, 55.8, 31.9, 20.9, 20.9, 20.8, 14.1. HRMS (ESI) m/z Calcd for C<sub>46</sub>H<sub>50</sub>O<sub>20</sub>Na [M + Na]<sup>+</sup> 945.2787, found: 945.2782.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2-ac etamido-3,4-di-*O*-benzyl-2-deoxy- $\alpha$ -D-glucopyranoside (36r $\beta$ )



GP1: 41.4 mg, 83% yield from **18**: a colorless syrup. (CH<sub>2</sub>Cl<sub>2</sub>/MeOH = 30:1, v/v) **36rβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.36 – 7.23 (m, 10H), 5.34 (d, *J* = 9.5 Hz, 1H), 5.28 (s, 1H), 5.20 – 5.16 (m, 1H), 4.94 – 4.88 (m, 1H), 4.85 – 4.79 (m, 2H), 4.67 – 4.57 (m, 3H), 4.38 – 4.33 (m, 1H), 4.29 (dd, *J* = 12.3, 4.5 Hz, 1H), 4.26 – 4.18 (m, 2H), 4.11 – 4.03 (m, 3H), 3.76 (dd, *J* = 9.8, 4.9 Hz, 1H), 3.71 – 3.65 (m, 1H), 3.61 – 3.58 (m, 2H), 3.34 (s, 3H), 2.42 (dd, *J* = 11.6, 3.8 Hz, 1H), 2.13 (t, *J* = 12.8 Hz, 1H), 2.10 (s, 3H), 2.09 (s, 3H), 2.00 (s, 3H), 1.99 (s, 3H), 1.84 (s, 3H), 1.22 (t, *J* = 7.1 Hz, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.7$ , 170.6, 170.0, 169.9, 169.9, 167.4 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.4 Hz, 151 MHz), 138.5, 138.3, 128.6, 128.6, 128.5, 128.3, 127.9, 127.8, 127.8, 99.4, 98.6, 80.5, 78.2, 75.0, 74.7, 70.8, 70.3, 68.1, 67.2, 64.1, 63.4, 62.3, 62.2, 54.9, 52.6, 32.3, 23.5, 20.9, 20.8, 20.8, 14.2. HRMS (ESI) m/z Calcd for C<sub>41</sub>H<sub>54</sub>NO<sub>17</sub> [M + H]<sup>+</sup> 832.3386, found: 832.3379.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2-ac etamido-3,4-di-*O*-benzyl-2-deoxy- $\alpha$ -<sub>D</sub>-glucopyranoside (36r $\alpha$ )



GP2: 8.0 mg, 16% yield from **18** to generate **36rβ**: a colorless syrup (CH<sub>2</sub>Cl<sub>2</sub>/MeOH = 30:1, v/v); while 27.5 mg, 55% yield from **18** to generate **36ra**: a colorless syrup (CH<sub>2</sub>Cl<sub>2</sub>/MeOH = 30:1, v/v). **36ra**: <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.35 – 7.27 (m, 10H), 5.37 – 5.25 (m, 3H), 5.22 – 5.14 (m, 1H), 4.89 (d, *J* = 11.2 Hz, 1H), 4.81 (d, *J* = 11.6 Hz, 1H), 4.64 – 4.57 (m, 3H), 4.55 (d, *J* = 11.2 Hz, 1H), 4.23 – 4.14 (m, 4H), 4.06 (dd, *J* = 12.3, 4.6 Hz, 1H), 3.84 – 3.77 (m, 1H), 3.71 (d, *J* = 10.1 Hz, 1H), 3.67 (t, *J* = 9.6 Hz, 1H), 3.53 – 3.45 (m, 1H), 3.41 – 3.34 (m, 4H), 2.15 (dd, *J* = 12.7, 4.8 Hz, 1H), 2.09 – 2.05 (m, 4H), 2.02 (s, 3H), 2.00 (s, 3H), 1.95 (s, 3H), 1.83 (s, 3H), 1.24 (t, *J* = 7.1 Hz, 3H). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.7, 170.6, 170.0, 170.0, 169.9, 166.9 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 138.3, 137.9, 128.7, 128.6, 128.4, 128.1, 127.9, 98.4, 98.4, 80.7, 79.3, 75.2, 75.2, 70.3, 68.6, 68.1, 66.6, 64.8, 63.4, 62.2, 62.0, 55.1, 52.8, 32.0, 23.6, 21.0, 20.9, 20.9, 20.8, 14.2. HRMS (ESI) m/z Calcd for C<sub>41</sub>H<sub>54</sub>NO<sub>17</sub> [M + H]<sup>+</sup> 832.3386, found: 832.3394.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-1,2:3,4-di-*O*-isopropylidene- $\alpha$ -D-galactopyranose (36s $\beta$ )<sup>[25]</sup>



GP1: 40.4 mg, 98% yield from 18: a white amorphous solid. (Petroleum ether/ethyl acetate = 3:1, v/v)

**36sβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 5.50 (d, *J* = 4.9 Hz, 1H), 5.27 (s, 1H), 5.14 (ddd, *J* = 9.5, 4.5, 2.3 Hz, 1H), 4.90 (ddd, *J* = 13.2, 4.6, 3.2 Hz, 1H), 4.59 (dd, *J* = 7.9, 2.1 Hz, 1H), 4.40 (d, *J* = 12.2 Hz, 1H), 4.34 (d, *J* = 4.6 Hz, 1H), 4.31 – 4.22 (m, 4H), 4.18 (d, *J* = 9.5 Hz, 1H), 3.93 (q, *J* = 5.4 Hz, 2H), 3.59 (dd, *J* = 12.2, 8.4 Hz, 1H), 2.40 (dd, *J* = 12.6, 4.6 Hz, 1H), 2.11 (t, *J* = 12.9 Hz, 1H), 2.09 (s, 3H), 2.07 (s, 3H), 1.99 (s, 3H), 1.97 (s, 3H), 1.55 (s, 3H), 1.42 (s, 3H), 1.32 (t, *J* = 6.4 Hz, 9H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 170.8$ , 170.6, 170.1, 169.9, 167.8 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.5 Hz, 101 MHz), 109.5, 108.8, 99.7, 96.4, 71.0, 70.9, 70.8, 70.7, 68.2, 67.6, 67.3, 64.2, 63.9, 62.5, 62.2, 32.4, 26.3, 26.1, 25.2, 24.6, 20.9, 20.9, 20.8, 20.8, 14.3.

The spectroscopic data coincided with the previous report.<sup>[25]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ - $_D$ -manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-1,2:3,4-di-*O*-isopropylidene- $\alpha$ - $_D$ -galactopyranose (36s $\alpha$ )<sup>[3]</sup>



GP2: 9.9 mg, 18% yield from **18** to generate **36s** $\beta$ : a white amorphous solid (Petroleum ether/ethyl acetate = 3:1, v/v); while 30.2 mg, 72% yield from **18** to generate **36s** $\alpha$ : a colorless syrup (Petroleum ether/ethyl acetate = 3:1, v/v).

**36sα:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 5.51 (d, *J* = 4.9 Hz, 1H), 5.37 – 5.33 (m, 2H), 5.27 (ddd, *J* = 9.7, 5.5, 2.3 Hz, 1H), 4.60 – 4.55 (m, 2H), 4.34 (dd, *J* = 9.8, 0.8 Hz, 1H), 4.30 – 4.22 (m, 3H), 4.20 (dd, *J* = 8.0, 1.7 Hz, 1H), 4.14 (dd, *J* = 12.3, 5.6 Hz, 1H), 3.99 – 3.96 (m, 1H), 3.67 – 3.60 (m, 2H), 2.20 – 2.17 (m, 1H), 2.10 – 2.07 (m, 4H), 2.06 (s, 3H), 2.00 (s, 3H), 1.97 (s, 3H), 1.56 (s, 3H), 1.41 (s, 3H), 1.34 – 1.30 (m, 9H).

The spectroscopic data coincided with the previous report.<sup>[3]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 1)-Diacetone- $\beta$ -D-fructopyranose (36t $\beta$ )



GP1: 34.0 mg, 83% yield from **18** to generate **36t** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 3:1, v/v); while 6.1 mg, 15% yield from **18** to generate **36t** $\alpha$ : a white amorphous solid (Petroleum ether/ethyl acetate = 3:1, v/v).

**36t** $\beta$ : <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.29 (s, 1H), 5.17 (ddd, *J* = 9.3, 4.5, 2.1 Hz, 1H), 4.96 – 4.88 (m, 1H), 4.62 (dd, *J* = 7.8, 2.5 Hz, 1H), 4.51 – 4.42 (m, 2H), 4.33 (dd, *J* = 12.3, 4.7 Hz, 1H), 4.28 – 4.19 (m, 3H), 4.16 (d, *J* = 9.5 Hz, 1H), 3.91 – 3.82 (m, 2H), 3.69 (d, *J* = 12.9 Hz, 1H), 3.65 (d, *J* = 10.5 Hz, 1H), 2.45 (dd, *J* = 12.5, 4.5 Hz, 1H), 2.13 – 2.08 (m, 4H), 2.07 (s, 3H), 1.99 (s, 3H), 1.98 (s, 3H), 1.53 (s, 3H), 1.45 (s, 3H), 1.42 (s, 3H), 1.35 – 1.30 (m, 6H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>): δ = 170.7, 170.5, 170.0, 170.0, 167.3 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.3 Hz, 151 MHz), 109.2, 108.9, 102.0, 99.3, 71.1, 71.0, 70.4, 69.9, 68.1, 67.2, 65.2, 64.2, 62.5, 62.4, 61.4, 32.3, 26.7,

25.9, 25.3, 24.2, 20.9, 20.8, 20.8, 14.3.

HRMS (ESI) m/z Calcd for  $C_{30}H_{44}O_{17}Na [M + Na]^+$  699.2470, found: 699.2463.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ - $_D$ -manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 1)-Diacetone- $\beta$ - $_D$ -fructopyranose (36t $\alpha$ )<sup>[3]</sup>



GP2: 7.7 mg, 19% yield from **18** to generate **36t** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 3:1, v/v); while 26.1 mg, 64% yield from **18** to generate **36t** $\alpha$ : a white amorphous solid (Petroleum ether/ethyl acetate = 3:1, v/v).

**36tβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 5.41$  (ddd, J = 12.3, 5.0, 3.1 Hz, 1H), 5.36 (d, J = 3.0 Hz, 1H), 5.22 (ddd, J = 9.7, 3.2, 2.2 Hz, 1H), 4.62 – 4.56 (m, 2H), 4.47 (d, J = 2.7 Hz, 1H), 4.27 (dt, J = 8.5, 4.7 Hz, 2H), 4.23 – 4.19 (m, 2H), 4.16 (dd, J = 12.5, 3.3 Hz, 1H), 3.90 (dd, J = 12.9, 1.8 Hz, 1H), 3.71 – 3.64 (m, 2H), 3.35 (d, J = 10.0 Hz, 1H), 2.26 – 2.20 (m, 1H), 2.10 (s, 3H), 2.09 (s, 3H), 2.06 (t, J = 12.5 Hz, 1H), 2.02 (s, 3H), 1.98 (s, 3H), 1.55 (s, 3H), 1.50 (s, 3H), 1.41 (s, 3H), 1.35 – 1.29 (m, 6H). The spectroscopic data coincided with the previous report.<sup>[3]</sup>

2,2'-(1,6-Hexanediyl)bis-[Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosyl) onat]yl ester (36uβ)



GP1(0.5 equiv. of S6): 19.2 mg, 67% yield from 18 to generate  $36u\beta$ : a colorless syrup. (Petroleum ether/ethyl acetate = 3:1, v/v)

**36uβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 5.30 - 5.25$  (m, 2H), 5.17 (dt, J = 9.6, 3.4 Hz, 2H), 4.87 (ddd, J = 13.2, 4.6, 3.0 Hz, 2H), 4.36 (d, J = 3.5 Hz, 4H), 4.26 (q, J = 7.1 Hz, 4H), 4.19 (dd, J = 9.6, 1.3 Hz, 2H), 3.74 (dt, J = 9.1, 6.4 Hz, 2H), 3.28 (dt, J = 9.2, 6.7 Hz, 2H), 2.37 (dd, J = 12.1, 4.8 Hz, 2H), 2.14 – 2.07 (m, 14H), 2.00 (s, 6H), 1.98 (s, 6H), 1.60 – 1.50 (m, 4H), 1.33 (t, J = 7.1 Hz, 10H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.9, 170.7, 170.1, 170.0, 168.0 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.8 Hz, 101 MHz),

99.5, 70.7, 68.2, 67.3, 64.8, 64.2, 62.5, 62.1, 32.6, 29.7, 25.9, 21.0, 20.9, 20.9, 14.4. HRMS (ESI) m/z Calcd for  $C_{42}H_{63}O_{24}$  [M + H]<sup>+</sup> 951.3703, found: 951.3708.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 5)-D-glucurono-6,3-lactone acetonide (36v $\beta$ )



GP1: 27.4 mg, 72% yield from **18** to generate **36v** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 2:1, v/v); while 10.2 mg, 27% yield from **18** to generate **36v** $\alpha$ : a white amorphous solid (Petroleum ether/ethyl acetate = 2:1, v/v).

**36vβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 6.01 (d, *J* = 3.7 Hz, 1H), 5.27 (s, 1H), 5.16 (dd, *J* = 9.5, 1.9 Hz, 1H), 4.99 (d, *J* = 4.3 Hz, 1H), 4.95 – 4.89 (m, 2H), 4.86 (d, *J* = 2.6 Hz, 1H), 4.79 (d, *J* = 3.7 Hz, 1H), 4.64 (dd, *J* = 12.6, 3.7 Hz, 1H), 4.29 (q, *J* = 7.2 Hz, 2H), 4.12 (d, *J* = 11.2 Hz, 1H), 3.97 (d, *J* = 9.5 Hz, 1H), 2.62 (dd, *J* = 12.3, 4.4 Hz, 1H), 2.19 (t, *J* = 12.8 Hz, 1H), 2.14 (s, 3H), 2.13 (s, 3H), 2.03 (s, 3H), 2.00 (s, 3H), 1.56 (s, 3H), 1.38 – 1.32 (m, 6H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 171.2$ , 171.2, 170.7, 170.0, 170.0, 166.5 (C1,  ${}^{3}J_{C-1/H-3ax} = 5.0$  Hz, 101 MHz), 113.4, 107.1, 99.4, 82.7, 81.9, 78.9, 71.0, 70.7, 68.3, 67.1, 63.8, 63.2, 61.8, 32.0, 27.0, 26.6, 21.2, 20.9, 14.1.

HRMS (ESI) m/z Calcd for C<sub>27</sub>H<sub>36</sub>O<sub>17</sub>Na [M + Na]<sup>+</sup> 655.1844, found: 655.1841.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 5)-D-glucurono -6,3-lactone acetonide (36v $\alpha$ )



GP1: 23.1 mg, 61% yield from **18** to generate **36va**: a white amorphous solid. (Petroleum ether/ethyl acetate = 2:1, v/v)

**36va:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 6.00$  (d, J = 3.6 Hz, 1H), 5.49 – 5.41 (m, 2H), 5.13 (dt, J =

9.8, 2.8 Hz, 1H), 4.89 (dd, *J* = 4.1, 2.9 Hz, 1H), 4.84 (d, *J* = 4.3 Hz, 1H), 4.80 – 4.75 (m, 3H), 4.40 (dd, *J* = 12.4, 2.5 Hz, 1H), 4.34 – 4.21 (m, 3H), 2.33 – 2.24 (m, 2H), 2.07 (s, 3H), 2.02 (s, 3H), 2.01 (s, 3H), 1.96 (s, 3H), 1.48 (s, 3H), 1.36 (t, *J* = 7.2 Hz, 3H), 1.33 (s, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>): δ = 171.7, 171.2, 170.3, 170.1, 169.5, 166.9 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 113.3, 107.1, 98.7, 82.8, 82.0, 77.7, 70.4, 68.8, 68.0, 66.2, 64.7, 62.7, 61.4, 30.8, 27.0, 26.7, 20.8, 20.8, 20.8, 20.7, 14.0.

HRMS (ESI) m/z Calcd for C<sub>27</sub>H<sub>36</sub>O<sub>17</sub>Na [M + Na]<sup>+</sup> 655.1844, found: 655.1842.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 3)-1,2:5,6-di-*O*-isopropylidene- $\alpha$ -D-glucofuranose (36w $\beta$ )



GP1: 34.4 mg, 85% yield from **18** to generate **36w** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 4:1, v/v); while 5.7 mg, 14% yield from **18** to generate **36w** $\alpha$ : a white amorphous solid (Petroleum ether/ethyl acetate = 3:1, v/v).

**36wβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.98 (d, *J* = 3.2 Hz, 1H), 5.28 (s, 1H), 5.15 (dd, *J* = 5.9, 3.4 Hz, 1H), 4.92 (d, *J* = 13.1 Hz, 1H), 4.57 (d, *J* = 3.3 Hz, 1H), 4.41 (d, *J* = 12.3 Hz, 1H), 4.34 (ddd, *J* = 10.4, 9.6, 3.7 Hz, 2H), 4.30 – 4.24 (m, 2H), 4.19 (dd, *J* = 13.1, 6.5 Hz, 2H), 3.98 (d, *J* = 11.0 Hz, 1H), 3.70 (t, *J* = 6.5 Hz, 1H), 3.54 (dd, *J* = 10.8, 6.4 Hz, 1H), 2.42 (dd, *J* = 12.6, 4.4 Hz, 1H), 2.16 – 2.09 (m, 4H), 2.09 (s, 3H), 2.00 (s, 3H), 1.98 (s, 3H), 1.49 (s, 3H), 1.36 (s, 3H), 1.35 (s, 3H), 1.32 (s, 3H), 1.25 (s, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>): δ = 170.8, 170.6, 170.0, 169.9, 167.7 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.9 Hz, 151 MHz), 112.2, 106.5, 101.0, 99.7, 84.2, 79.1, 75.2, 71.4, 71.0, 68.2, 67.3, 65.1, 64.2, 62.5, 62.3, 32.5, 29.8, 27.3, 26.7, 24.2, 24.1, 21.0, 20.9, 20.8, 20.8, 14.3.

HRMS (ESI) m/z Calcd for  $C_{30}H_{44}O_{17}Na [M + Na]^+$  699.2470, found: 699.2468.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ - $_D$ -manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 3)-1,2:5,6-di-*O*-isopropylidene- $\alpha$ - $_D$ -glucofuranose (36w $\alpha$ )<sup>[2b]</sup>



GP2: 23.2 mg, 57% yield from 18: a pale-yellow syrup. (Petroleum ether/ethyl acetate = 4:1, v/v)

**36wa:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 5.92 (d, *J* = 3.6 Hz, 1H), 5.38 (s, 1H), 5.28 – 5.26 (m, 1H), 5.18 (dt, *J* = 9.5, 3.3 Hz, 1H), 4.78 (dd, *J* = 12.3, 2.5 Hz, 1H), 4.64 (d, *J* = 3.6 Hz, 1H), 4.32 – 4.21 (m, 6H), 4.10 – 4.05 (m, 2H), 4.01 (dd, *J* = 8.5, 5.8 Hz, 1H), 2.29 (dd, *J* = 13.2, 4.6 Hz, 1H), 2.14 (t, *J* = 12.9 Hz, 1H), 2.10 (s, 3H), 2.07 (s, 3H), 1.98 (s, 3H), 1.97 (s, 3H), 1.48 (s, 3H), 1.41 (s, 3H), 1.36 – 1.34 (m, 6H), 1.30 (s, 3H).

The spectroscopic data coincided with the previous report.<sup>[2b]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 4)-methyl-2,3-*O*-isopropylidene- $\alpha$ -L-rhamnopyranoside (36x $\beta$ )



GP1: 30.5 mg, 80% yield from **18** to generate **36x** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 4:1, v/v); while 7.2 mg, 19% yield from **18** to generate **36x** $\alpha$ : a colorless syrup (Petroleum ether/ethyl acetate = 4:1, v/v).

**36xβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 5.27$  (d, J = 1.1 Hz, 1H), 5.13 (ddd, J = 9.5, 4.8, 2.3 Hz, 1H), 4.83 (ddd, J = 13.3, 4.5, 3.0 Hz, 1H), 4.80 (s, 1H), 4.40 (dd, J = 12.3, 2.3 Hz, 1H), 4.35 (dd, J = 12.3, 4.9 Hz, 1H), 4.27 – 4.15 (m, 3H), 4.08 (d, J = 6.4 Hz, 1H), 4.03 (d, J = 5.9 Hz, 1H), 3.71 (dd, J = 9.8, 6.7 Hz, 1H), 3.57 (dq, J = 12.6, 6.3 Hz, 1H), 3.35 (s, 3H), 2.45 (dd, J = 12.4, 4.3 Hz, 1H), 2.07 (s, 3H), 2.07 (s, 3H), 2.02 (t, J = 12.9 Hz, 1H), 1.99 (s, 3H), 1.98 (s, 3H), 1.42 (s, 3H), 1.34 – 1.28 (m, 6H), 1.26 (s, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta = 170.7$ , 170.5, 170.0, 167.0, 167.2 (C1,  ${}^{3}J_{C-1/H-3ax} = 5.0$  Hz, 101 MHz), 109.3, 98.6, 98.0, 77.7, 76.2, 75.8, 71.2, 68.2, 67.2, 64.5, 64.3, 62.8, 62.0, 55.0, 33.6, 27.7, 26.5, 20.9, 20.9, 20.7, 18.1, 14.0.

HRMS (ESI) m/z Calcd for  $C_{28}H_{42}O_{16}Na [M + Na]^+$  657.2365, found: 657.2363.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 4)-methyl-2,3-*O*-isopropylidene- $\alpha$ -L-rhamnopyranoside (36x $\alpha$ )



GP2: 2.8 mg, 6% yield from 18 to generate  $36x\beta$ : a colorless syrup (Petroleum ether/ethyl a cetate = 4:1, v/v); while 31.2 mg, 94% yield from 18 to generate the mixture of  $36x\alpha$  and glycal (1:0.6): a colorless syrup (Petroleum ether/ethyl acetate = 4:1, v/v).

The mixture of **36x** $\alpha$  and **glycal** (1:0.6): <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta = 5.88$  (d, J = 1.7 Hz, 0.6H, **glycal**), 5.71 (dd, J = 2.8, 1.7 Hz, 0.6H, **glycal**), 5.47 (d, J = 4.5 Hz, 0.6H, **glycal**), 5.36 – 5.29 (m, 3H,  $\alpha$ ), 5.28 – 5.25 (m, 0.6H, **glycal**), 4.81 (s, 1H,  $\alpha$ ), 4.65 – 4.60 (m, 1H&0.6H), 4.34 (d, J = 9.6 Hz, 0.6H, **glycal**), 4.30 – 4.20 (m, 4H&1.8H), 4.05 (dd, J = 17.7, 6.0 Hz, 2H,  $\alpha$ ), 3.62 (dt, J = 12.4, 6.2 Hz, 1H,  $\alpha$ ), 3.55 (dd, J = 9.6, 6.5 Hz, 1H,  $\alpha$ ), 3.36 (s, 3H,  $\alpha$ ), 2.19 (dd, J = 12.6, 4.7 Hz, 1H,  $\alpha$ ), 2.12 – 2.07 (m, 1H,  $\alpha$ ), 2.08 (s, 3.6H, **glycal**), 2.07 (s, 3H,  $\alpha$ ), 2.05 (s, 3H,  $\alpha$ ), 2.03 (s, 1.8H, **glycal**), 2.03 (s, 1.8H, **glycal**), 1.98 (s, 3H,  $\alpha$ ), 1.97 (s, 3H,  $\alpha$ ), 1.49 (s, 3H,  $\alpha$ ), 1.35 – 1.31 (m, 6H&1.8H), 1.22 (d, J = 6.2 Hz, 3H,  $\alpha$ ).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>): δ = 170.8, 170.7, 170.6, 170.4, 170.2, 170.2, 169.8, 169.6, 166.5 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 101 MHz), 161.2, 145.0, 109.7, 107.4, 99.8, 97.9, 79.3, 76.8, 75.6, 73.5, 69.4, 68.3, 67.4, 66.5, 64.9, 64.7, 64.1, 63.8, 62.0, 62.0, 61.8, 60.9, 54.9, 33.5, 27.7, 26.2, 21.0, 20.9, 20.8, 20.8, 20.8, 20.7, 17.8, 14.2, 14.1.

HRMS (ESI) m/z Calcd for  $C_{28}H_{42}O_{16}Na [M + Na]^+$  657.2365, found: 657.2369.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 4)-[ethyl (2-*O*-acetyl-7,8-di-*O*-isopropylidene-3-deoxy- $\alpha$ -D-manno-oct-2-ulopyranosyl)onate] (36y $\beta$ )



GP1: 29.7 mg, 65% yield from 18 to generate  $36y\beta$ : a colorless syrup (Petroleum ether/ethyl acetate =

1:1, v/v).

**36yβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 5.27 (s, 1H, H-5), 5.12 (d, *J* = 8.8 Hz, 1H, H-7), 4.89 – 4.83 (m, 1H, H-4), 4.70 (dd, *J* = 12.5, 3.3 Hz, 1H, H-8), 4.43 – 4.38 (m, 1H, H-7'), 4.29 – 4.25 (m, 3H, H-6 & CH<sub>2</sub> of Et group on Kdo donor), 4.22 (q, *J* = 7.1 Hz, 3H, H-4' & CH<sub>2</sub> of Et group on Kdo acceptor), 4.17 (s, 1H, H-5'), 4.10 (dd, *J* = 9.0, 6.3 Hz, 1H, H-8'), 3.97 – 3.91 (m, 2H, H-8 & H-8'), 3.75 (d, *J* = 8.5 Hz, 1H, H-6'), 2.37 (dd, *J* = 12.5, 4.4 Hz, 1H, H-3), 2.24 (t, *J* = 12.6 Hz, 1H, H-3'), 2.14 (s, 3H, OAc), 2.13 (s, 3H, OAc), 2.11 (s, 3H, OAc), 2.07 (t, *J* = 13.0 Hz, 1H, H-3), 2.02 (s, 3H, OAc), 2.01 – 1.99 (m, 1H, H-3'), 1.98 (s, 3H, OAc), 1.43 (s, 3H, CH<sub>3</sub>), 1.36 (s, 3H, CH<sub>3</sub>), 1.35 (t, *J* = 7.1 Hz, 3H, CH<sub>2</sub> of Et group on Kdo acceptor). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.6, 170.3, 170.0, 169.9, 168.8, 167.6 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.5 Hz, 151 MHz), 166.6, 109.7, 100.1, 98.4, 74.3, 73.1, 70.7, 70.3, 68.4, 67.4, 66.9, 64.0, 62.6, 62.2, 61.5, 32.9, 31.1, 26.8, 25.3, 21.0, 20.9, 20.8, 14.2, 14.0.

HRMS (ESI) m/z Calcd for  $C_{33}H_{48}O_{20}Na$  [M + Na]<sup>+</sup> 787.2631, found: 787.2625.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 4)-[ethyl (2-*O*-acetyl-7,8-di-*O*-isopropylidene-3-deoxy- $\alpha$ -D-manno-oct-2-ulopyranosyl)onate] (36y $\alpha$ )



GP2: 5.0 mg, 11% yield from **18** to generate **36y** $\beta$ : a colorless syrup (Petroleum ether/ethyl acetate = 1:1, v/v); while 24.4 mg, 53% yield from **18** to generate **36y** $\alpha$ : a colorless syrup (Petroleum ether/ethyl acetate = 1:1, v/v).

**36ya:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 5.39 (s, 1H), 5.27 (s, 2H), 4.77 (dd, *J* = 5.7, 3.5 Hz, 1H), 4.38 (s, 1H), 4.34 – 4.21 (m, 6H), 4.11 (d, *J* = 7.2 Hz, 2H), 4.04 (d, *J* = 4.0 Hz, 1H), 3.85 (s, 2H), 3.42 (s, 1H), 2.30 (dd, *J* = 9.1, 3.5 Hz, 1H), 2.22 (t, *J* = 12.3 Hz, 1H), 2.14 (s, 3H), 2.11 – 2.02 (m, 8H), 1.99 (s, 6H), 1.38 (s, 6H), 1.33 (s, 3H), 1.34 – 1.20 (m, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.9, 170.4, 170.1, 169.7, 168.4, 167.5 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 166.8, 109.5, 98.0, 97.9, 74.3, 72.9, 71.9, 69.8, 68.5, 67.8, 67.5, 66.2, 64.3, 64.2, 62.7, 62.5, 62.0, 32.3, 32.1, 29.8, 27.0, 25.1, 22.8, 20.9, 20.8, 14.1, 14.1.

HRMS (ESI) m/z Calcd for  $C_{33}H_{52}O_{20}N [M + NH_4]^+$  782.3077, found: 782.3069.

#### Ethyl (4,5,7,8-tetra-O-acetyl-3-deoxy-β-D-manno-oct-2-ulopyranosyl)onate-(2→3)-methyl 2-O-

benzyl-4,6-*O*-benzylidene- $\alpha$ -p-mannopyranoside (36z $\beta$ )<sup>[11]</sup>



GP1 (S25 3.0 equiv.): 24.5 mg, 51% yield from 18 to generate  $36z\beta$ : a white amorphous solid (Petroleum ether/ethyl acetate = 3:1, v/v); while 11.1 mg, 23% yield from 18 to generate  $36z\alpha$ : a white amorphous solid (Petroleum ether/ethyl acetate = 3:1, v/v).

**36zβ:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.49$  (dd, J = 8.2, 1.3 Hz, 2H), 7.40 (d, J = 7.3 Hz, 2H), 7.37 – 7.32 (m, 6H), 5.61 (s, 1H), 5.31 – 5.28 (m, 1H), 5.11 – 5.05 (m, 2H), 4.95 (d, J = 12.1 Hz, 1H), 4.77 (d, J = 12.0 Hz, 1H), 4.63 (d, J = 1.6 Hz, 1H), 4.53 (dd, J = 10.3, 3.2 Hz, 1H), 4.39 (dd, J = 12.3, 2.3 Hz, 1H), 4.29 – 4.21 (m, 2H), 4.18 – 4.10 (m, 2H), 3.97 (dd, J = 9.5, 0.9 Hz, 1H), 3.89 (t, J = 10.3 Hz, 1H), 3.82 (dd, J = 9.4, 4.5 Hz, 1H), 3.73 (dd, J = 3.1, 1.6 Hz, 1H), 3.33 (s, 3H), 2.43 – 2.37 (m, 2H), 2.07 (s, 3H), 2.06 (s, 3H), 2.01 (s, 3H), 1.97 (s, 3H), 1.29 (t, J = 7.1 Hz, 3H).

The spectroscopic data coincided with the previous report.<sup>[11]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 3)-methyl 2-*O*-benzyl-4,6-*O*-benzylidene- $\alpha$ -<sub>D</sub>-mannopyranoside (36z $\alpha$ )<sup>[3]</sup>



GP2: 41.2 mg, 87% yield from 18: a colorless syrup. (Petroleum ether/ethyl acetate = 3:1, v /v)

**36za:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 7.49 – 7.40 (m, 6H), 7.36 – 7.31 (m, 4H), 5.49 (s, 1H), 5.35 – 5.26 (m, 2H), 5.13 (ddd, *J* = 9.6, 4.3, 2.7 Hz, 1H), 4.84 (d, *J* = 6.8 Hz, 2H), 4.73 (d, *J* = 1.6 Hz, 1H), 4.51 (ddd, *J* = 13.3, 11.2, 2.9 Hz, 2H), 4.22 (dd, *J* = 9.9, 4.5 Hz, 1H), 4.14 – 4.09 (m, 1H), 4.04 – 3.97 (m, 2H), 3.81 (dt, *J* = 12.0, 7.6 Hz, 2H), 3.72 (ddd, *J* = 10.8, 7.2, 3.0 Hz, 2H), 3.35 – 3.26 (m, 4H), 2.39 (dd, *J* = 13.0, 5.2 Hz, 1H), 2.07 – 2.03 (m, 4H), 1.98 (s, 3H), 1.88 (s, 3H), 1.87 (s, 3H), 0.90 (t, *J* = 7.1 Hz, 3H).

The spectroscopic data coincided with the previous report.<sup>[3]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy-β-<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2→3)-1,2:5,6-Di-*O* -isopropylidene-alpha-<sub>D</sub>-allofuranose (36aaβ)



#### **36aa**β

GP1 (**S26** 3.0 equiv.): 21.5 mg, from **18** to generate the mixture of **36aa** $\beta$  (44% yield) and **glycal** (1:0.33): a colorless syrup (Petroleum ether/ethyl acetate = 4:1, v/v); while 8.2 mg, 20% yield from **18** to generate **36aa** $\alpha$ : a white amorphous solid (Petroleum ether/ethyl acetate = 4:1, v/v).

**36aaβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>): δ = 5.40 (s, 1H), 5.32 (s, 1H), 5.23 – 5.20 (m, 1H), 5.14 – 5.08 (m, 1H), 4.86 (d, *J* = 6.0 Hz, 1H), 4.74 (d, *J* = 5.9 Hz, 1H), 4.38 (dd, *J* = 12.4, 1.8 Hz, 1H), 4.32 – 4.23 (m, 5H), 4.15 – 4.11 (m, 1H), 4.06 – 4.01 (m, 2H), 2.24 (t, *J* = 12.6 Hz, 1H), 2.10 (s, 3H), 2.09 (s, 3H), 2.06 (s, 3H), 2.04 – 2.03 (m, 4H), 1.48 (s, 3H), 1.46 (s, 3H), 1.37 (s, 3H), 1.34 (t, *J* = 7.1 Hz, 3H), 1.31 (s, 3H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>): δ = 171.0, 170.5, 170.0, 169.9, 167.1, 112.6, 110.3, 107.4, 104.4, 99.5, 88.6, 86.5, 81.5, 75.4, 69.7, 68.0, 67.1, 66.3, 64.6, 62.7, 62.4, 31.5, 29.8, 27.2, 26.6, 24.9, 24.9, 20.9, 20.8, 14.6, 14.1.

HRMS (ESI) m/z Calcd for C<sub>30</sub>H<sub>45</sub>O<sub>17</sub> [M + H]<sup>+</sup> 677.2651, found: 677.2654.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy- $\alpha$ -<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 3)-1,2:5,6-Di-*O* -isopropylidene-alpha-<sub>D</sub>-allofuranose (36aa $\alpha$ )<sup>[3]</sup>



36aa $\alpha$ 

GP2: 33.9 mg, 83% yield from 18: a colorless syrup. (Petroleum ether/ethyl acetate = 3:1, v /v)

**36aaα:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ = 5.66 (d, *J* = 3.8 Hz, 1H), 5.41 (ddd, *J* = 12.4, 4.8, 2.9 Hz, 1H), 5.35 – 5.30 (m, 1H), 5.25 (ddd, *J* = 9.8, 4.5, 2.8 Hz, 1H), 4.71 (dd, *J* = 12.2, 2.8 Hz, 1H), 4.64 (dd, *J* = 9.8, 1.5 Hz, 1H), 4.53 – 4.47 (m, 1H), 4.28 – 4.14 (m, 4H), 4.08 – 3.98 (m, 2H), 3.95 – 3.84

(m, 2H), 2.39 (ddd, *J* = 13.1, 4.8, 0.9 Hz, 1H), 2.14 – 2.05 (m, 7H), 1.97 (s, 3H), 1.96 (s, 3H), 1.55 (s, 3H), 1.50 (s, 3H), 1.45 (s, 3H), 1.33 (t, *J* = 7.2 Hz, 3H), 1.28 (s, 3H). The spectroscopic data coincided with the previous report.<sup>[3]</sup>

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy-α-<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2→3)-2-azidoethyl-2-*O*-benzoyl-4,6-*O*-benzylidene-β-D-galactopyranoside (36abα)



GP1: 43.3 mg, 84% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 1:1, v/v). GP2: 30.9 mg, 60% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 1:1, v/v). **36aba:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta$  = 8.15 (d, *J* = 7.5 Hz, 2H), 7.61 (t, *J* = 7.4 Hz, 1H), 7.57 – 7.53 (m, 2H), 7.49 (t, *J* = 7.7 Hz, 2H), 7.45 – 7.36 (m, 3H), 5.76 – 5.69 (m, 1H), 5.44 (s, 1H), 5.16 (dt, *J* = 9.7, 3.3 Hz, 1H), 4.89 – 4.81 (m, 1H), 4.77 (s, 1H), 4.72 (d, *J* = 8.1 Hz, 1H), 4.65 (dd, *J* = 12.2, 3.0 Hz, 1H), 4.35 (dd, *J* = 12.3, 3.8 Hz, 2H), 4.28 (d, *J* = 10.1 Hz, 1H), 4.22 (dd, *J* = 11.8, 6.0 Hz, 2H), 4.16 (dd, *J* = 10.2, 3.6 Hz, 1H), 4.12 – 4.01 (m, 2H), 3.94 – 3.83 (m, 1H), 3.74 – 3.65 (m, 1H), 3.53 (s, 1H), 3.41 (ddd, *J* = 12.2, 8.2, 3.8 Hz, 1H), 3.30 (dt, *J* = 13.2, 4.1 Hz, 1H), 2.35 (dd, *J* = 13.1, 4.7 Hz, 1H), 2.21 (s, 3H), 1.98 (s, 3H), 1.93 (s, 3H), 1.88 (t, *J* = 12.8 Hz, 1H), 1.82 (s, 3H), 1.09 (t, *J* = 7.1 Hz, 3H). <sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.8, 170.2, 169.6, 168.9, 168.3 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 165.2, 137.5, 133.5, 130.1, 129.4, 129.2, 128.6, 128.4, 126.4, 101.2, 100.9, 96.5, 72.7, 71.6, 69.4, 69.2, 68.9, 67.6, 67.0, 66.6, 65.8, 63.9, 62.4, 62.3, 50.9, 31.9, 21.3, 20.8, 20.7, 20.6, 13.8. HRMS (ESI) m/z Calcd for C<sub>40</sub>H<sub>51</sub>O<sub>18</sub>N4 [M + NH4]<sup>+</sup> 875.3192, found: 875.3199.

Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxy-α-<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2→3)-methyl 2-*O*-acetyl-4-*O*-benzyl-α-L-rhamnopyranoside (36acα)



GP1: 38.4 mg, 88% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 2:1, v/v). GP2: 37.8 mg, 87% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 2:1, v/v).

**36acu:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 7.45$  (d, J = 7.4 Hz, 2H, OBn), 7.37 (t, J = 7.4 Hz, 2H, OBn), 7.31 (d, J = 7.3 Hz, 1H, OBn), 5.38 – 5.30 (m, 1H, H-4), 5.13 – 5.03 (m, 1H, H-7), 4.93 (s, 1H, H-5), 4.80 (q, J = 10.7 Hz, 3H, H-12 & OCH<sub>2</sub>Ph), 4.53 (d, J = 10.0 Hz, 2H, H-6 & H-13), 4.44 (dd, J = 12.0, 2.9 Hz, 1H, H-8), 4.37 – 4.30 (m, 1H, CH<sub>2</sub> of Et group), 4.28 (dd, J = 9.8, 3.1 Hz, 1H, H-11), 4.12 (dq, J = 10.8, 7.2 Hz, 1H, CH<sub>2</sub> of Et group), 3.99 (dd, J = 12.1, 5.8 Hz, 1H, H-8), 3.77 (dq, J = 12.4, 6.2 Hz, 1H, H-9), 3.49 (t, J = 9.7 Hz, 1H, H-10), 3.34 (s, 3H, OMe), 2.28 (dd, J = 13.1, 4.9 Hz, 1H, H-3), 2.16 (s, 3H, OAc), 2.05 – 2.02 (m, 4H, H-3 & OAc), 1.99 (s, 3H, OAc), 1.98 (s, 3H, OAc), 1.82 (s, 3H, OAc), 1.39 (d, J = 6.2 Hz, 3H, Me), 1.30 (t, J = 7.1 Hz, 3H, CH<sub>3</sub> of Et group).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta = 170.8$ , 170.5, 170.5, 170.0, 169.8, 167.6 (C1,  ${}^{3}J_{C-1/H-3ax} = 0$  Hz, 151 MHz), 137.5, 128.6, 128.0, 127.9, 98.2, 96.6, 80.0 76.1, 70.3, 70.2, 68.6, 68.4, 67.7, 66.6, 64.4, 62.8, 62.6, 55.1, 32.2, 21.1, 21.0, 20.9, 20.8, 20.8, 18.2, 13.8.

HRMS (ESI) m/z Calcd for C<sub>34</sub>H<sub>46</sub>O<sub>17</sub>Na [M + Na]<sup>+</sup> 749.2627, found: 749.2632.

## Ethyl (4,5,7-tri-*O*-acetyl-8-*O-tert*-butyldiphenylsilyl-3-deoxy-β-<sub>D</sub>-manno-oct-2ulopyranosyl)onate-(2→6)-methyl 2,3,4-tri-*O*-benzyl-α-<sub>D</sub>-glucopyranoside (42pβ)



GP1: 51.0 mg, 79% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 4:1, v/v) **42pβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.64 (dd, *J* = 12.0, 7.7 Hz, 4H), 7.39 – 7.28 (m, 16H), 7.26 – 7.21 (m, 2H), 7.19 (t, *J* = 8.2 Hz, 3H), 5.29 (s, 1H), 5.17 – 5.12 (m, 1H), 4.99 – 4.92 (m, 2H), 4.82 – 4.76 (m, 3H), 4.67 (d, *J* = 12.2 Hz, 1H), 4.62 (d, *J* = 3.1 Hz, 1H), 4.55 (d, *J* = 11.0 Hz, 1H), 4.14 – 4.06 (m, 2H), 3.98 (t, *J* = 9.3 Hz, 1H), 3.95 – 3.90 (m, 2H), 3.87 (d, *J* = 11.2 Hz, 1H), 3.81 (dd, *J* = 11.4, 5.2 Hz, 1H), 3.75 (dd, *J* = 10.0, 4.0 Hz, 1H), 3.63 (dd, *J* = 10.4, 4.5 Hz, 1H), 3.54 – 3.48 (m, 2H), 3.37 (s, 3H), 2.37 (dd, *J* = 12.4, 4.5 Hz, 1H), 2.13 (t, *J* = 12.7 Hz, 1H), 2.06 (s, 3H), 1.98 (s, 3H), 1.95 (s, 3H), 1.07 (t, *J* = 7.1 Hz, 3H), 1.01 (s, 9H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>): δ = 170.7, 170.0, 169.9, 167.4 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 6.2 Hz, 151 MHz), 138.8, 138.4, 138.3, 135.7, 135.7, 133.6, 133.4, 129.8, 129.7, 128.6, 128.5, 128.5, 128.2, 128.1, 128.0, 127.8, 127.7, 127.7, 127.6, 99.5, 98.1, 82.3, 80.0, 77.5, 75.9, 74.6, 73.5, 71.2, 70.5, 69.6, 67.4, 64.4, 63.1, 62.8, 62.1, 55.2, 32.1, 26.8, 20.9, 20.9, 19.4, 14.1.

HRMS (ESI) m/z Calcd for C<sub>60</sub>H<sub>72</sub>O<sub>16</sub>SiNa [M + Na]<sup>+</sup> 1099.4481, found: 1099.4476.

#### Ethyl (4-O-trimethylacetyl-5,7-di-O-acetyl-8-O-tert-butyldiphenylsilyl-3-deoxy-β-D-manno-oct-

2-ulopyranosyl)onate- $(2\rightarrow 6)$ -methyl 2,3,4-tri-O-benzyl- $\alpha$ -p-glucopyranoside (43p $\beta$ )



GP1: 54.2 mg, 81% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 6:1, v/v) **43pβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.64 (dd, *J* = 11.9, 6.8 Hz, 4H), 7.39 – 7.27 (m, 16H), 7.26 – 7.17 (m, 5H), 5.36 (s, 1H), 5.16 – 5.12 (m, 1H), 4.97 (d, *J* = 10.8 Hz, 1H), 4.95 – 4.89 (m, 1H), 4.83 – 4.76 (m, 3H), 4.67 (d, *J* = 12.2 Hz, 1H), 4.62 (d, *J* = 3.3 Hz, 1H), 4.55 (d, *J* = 10.9 Hz, 1H), 4.15 (d, *J* = 9.5 Hz, 1H), 4.10 (dt, *J* = 14.3, 7.7 Hz, 1H), 3.96 (dt, *J* = 7.2, 6.4 Hz, 2H), 3.92 (d, *J* = 10.3 Hz, 1H), 3.89 – 3.85 (m, 1H), 3.82 (dd, *J* = 11.4, 5.2 Hz, 1H), 3.76 – 3.72 (m, 1H), 3.64 (dd, *J* = 10.4, 4.4 Hz, 1H), 3.55 – 3.50 (m, 2H), 3.37 (s, 3H), 2.39 (dd, *J* = 12.3, 4.5 Hz, 1H), 2.11 (t, *J* = 12.6 Hz, 1H), 2.04 (s, 3H), 1.96 (s, 3H), 1.13 (s, 9H), 1.08 (t, *J* = 7.1 Hz, 3H), 1.01 (s, 9H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>): δ = 177.1, 170.4, 170.0, 167.5 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.3 Hz, 151 MHz), 138.9, 138.4, 138.3, 135.7, 135.7, 133.6, 133.4, 129.8, 129.7, 128.6, 128.5, 128.5, 128.2, 128.1, 128.0, 127.8, 127.7, 127.6, 99.4, 98.1, 82.3, 80.0, 77.5, 75.9, 74.6, 73.4, 71.3, 70.5, 69.5, 67.4, 64.3, 63.0, 62.8, 62.1, 55.2, 38.8, 32.3, 27.1, 26.8, 21.0, 20.9, 19.4, 14.1.

HRMS (ESI) m/z Calcd for C<sub>63</sub>H<sub>79</sub>O<sub>16</sub>Si [M + H]<sup>+</sup> 1119.5131, found: 1119.5127.

Ethyl (4,7-di-*O*-trimethylacetyl-5-*O*-acetyl-8-*O*-tert-butyldiphenylsilyl-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2,3,4-tri-*O*-benzyl- $\alpha$ -D-glucopyranoside (44p $\beta$ )



GP1: 56.3 mg, 81% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 10:1, v/v) **44pβ:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.68 – 7.61 (m, 4H), 7.40 – 7.35 (m, 4H), 7.34 – 7.26 (m, 12H), 7.25 – 7.19 (m, 3H), 7.16 (d, *J* = 6.8 Hz, 2H), 5.26 (s, 1H), 5.19 (ddd, *J* = 9.1, 4.9, 2.5 Hz, 1H), 4.97 (d, *J* = 10.8 Hz, 1H), 4.94 – 4.88 (m, 3H), 4.82 – 4.75 (m, 2H), 4.67 (d, *J* = 12.2 Hz, 1H), 4.62 (d, *J* = 3.5 Hz, 1H), 4.50 (d, *J* = 11.0 Hz, 1H), 4.18 (d, *J* = 9.3 Hz, 1H), 4.07 (dq, *J* = 10.9, 7.1 Hz, 1H), 3.98 (t, *J* = 9.2 Hz, 1H), 3.94 – 3.88 (m, 1H), 3.87 – 3.81 (m, 2H), 3.71 (dd, *J* = 10.0, 2.1 Hz, 1H), 3.60 (dd, *J* = 10.4, 4.2 Hz, 1H), 3.53 (dd, *J* = 9.6, 3.4 Hz, 2H), 3.36 (s, 3H), 2.37 (dd, *J* = 12.3, 4.5 Hz, 1H), 2.09 (t, *J* = 12.6 Hz, 1H), 2.04 (s, 3H), 1.18 (s, 9H), 1.12 (s, 9H), 1.08 (t, *J* = 7.1 Hz, 3H), 1.03 (s, 9H). <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 177.3, 177.1, 170.0, 167.5 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 5.5 Hz, 151 MHz), 138.9, 138.5, 138.3, 135.8, 135.8, 133.6, 133.1, 129.8, 129.7, 128.6, 128.6, 128.5, 128.4, 128.2, 128.2, 128.1, 128.0, 127.7, 127.7, 127.6, 127.6, 127.4, 99.3, 98.1, 82.3, 80.0, 77.4, 75.8, 74.6, 73.4, 71.4, 70.4, 69.5, 67.5, 64.4, 62.9, 62.8, 62.1, 55.3, 39.0, 38.8, 35.6, 32.6, 27.2, 27.2, 27.1, 26.9, 21.0, 19.3, 14.1. HRMS (ESI) m/z Calcd for C<sub>66</sub>H<sub>84</sub>O<sub>16</sub>SiNa [M + Na]<sup>+</sup> 1183.5420, found: 1183.5404.

Ethyl (4-*O*-acetyl-5,7-di-*O-tert*-butylsilyl-8-*O-tert*-butyldiphenylsilyl-3-deoxy-α-<sub>D</sub>-manno-oct-2ulopyranosyl)onate-(2→6)-methyl 2,3,4-tri-*O*-benzyl-α-<sub>D</sub>-glucopyranoside (45pα)



GP1: 57.8 mg, 85% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 8:1, v/v) **45pa:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.66 (d, *J* = 7.0 Hz, 4H), 7.44 – 7.34 (m, 6H), 7.33 – 7.20 (m, 15H), 5.18 – 5.08 (m, 1H, H-4), 4.95 (d, *J* = 10.9 Hz, 1H), 4.83 (d, *J* = 11.0 Hz, 1H), 4.76 (d, *J* = 10.9 Hz, 1H), 4.64 (d, *J* = 12.1 Hz, 1H), 4.55 (d, *J* = 12.1 Hz, 1H), 4.45 (d, *J* = 11.0 Hz, 1H), 4.40 (d, *J* = 3.5 Hz, 1H), 4.36 (s, 1H), 4.31 (t, *J* = 5.9 Hz, 1H), 4.16 – 4.07 (m, 2H), 4.00 (s, 1H), 3.92 (t, *J* = 9.2 Hz, 1H), 3.71 – 3.65 (m, 2H), 3.68 (dd, *J* = 10.4, 5.1 Hz, 1H), 3.62 (dd, *J* = 10.3, 7.0 Hz, 1H), 3.42 (t, *J* = 9.2 Hz, 1H), 3.37 (s, 3H), 3.32 (dd, *J* = 9.6, 3.6 Hz, 1H), 3.06 (t, *J* = 9.5 Hz, 1H), 2.30 (t, *J* = 12.1 Hz, 1H, H-3), 2.10 (dd, *J* = 12.6, 4.1 Hz, 1H, H-3), 2.07 (s, 3H), 1.18 (t, *J* = 7.2 Hz), 1.06 (s, 9H), 0.99 (s, 9H), 0.93 (s, 9H).

<sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>):  $\delta$  = 170.4, 167.7 (C1, <sup>3</sup>*J*<sub>C-1/H-3ax</sub> = 0 Hz, 151 MHz), 139.0, 138.3, 138.2, 135.7, 135.6, 133.4, 133.2, 129.9, 129.9, 128.5, 128.5, 128.5, 128.4, 128.1, 128.1, 128.0, 128.0, 127.9, 127.9, 127.8, 127.7, 127.7, 98.6, 97.3, 82.3, 80.1, 78.9, 77.0, 75.8, 75.1, 73.2, 70.9, 70.0, 69.5, 66.3, 66.2, 63.6, 61.7, 55.0, 31.4, 27.8, 27.2, 27.0, 22.1, 21.7, 21.2, 19.3, 14.2.

HRMS (ESI) m/z Calcd for C<sub>64</sub>H<sub>88</sub>O<sub>14</sub>NSi<sub>2</sub> [M + NH<sub>4</sub>]<sup>+</sup> 1150.5737, found: 1150.5744.

Ethyl (4,5:7,8-di-*O*-isopropylidene-3-deoxy- $\alpha/\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)methyl 2,3,4-tri-*O*-benzyl- $\alpha$ -D-glucopyranoside (46p)<sup>[8]</sup>



GP1: 31.9 mg, 67% yield from **18** to generate the mixture of **46p** $\beta$  and **46p** $\alpha$  (1:1): a pale-yellow oil. (Petroleum ether/ethyl acetate = 4:1, v/v)

**46** (*α*/**β** = 1:1): <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.38 – 7.26 (m, 30H), 4.96 (dd, *J* = 10.8, 5.8 Hz, 2H), 4.83 (d, *J* = 10.9 Hz, 2H), 4.81 – 4.74 (m, 4H), 4.70 – 4.63 (m, 3H), 4.60 (d, *J* = 3.5 Hz, 1H), 4.57 – 4.53 (m, 2H), 4.50 – 4.45 (m, 2H), 4.36 (dd, *J* = 12.3, 6.1 Hz, 1H), 4.27 – 4.20 (m, 3H), 4.19 – 4.08 (m, 6H), 4.00 – 3.94 (m, 3H), 3.89 (dd, *J* = 8.7, 6.3 Hz, 1H), 3.78 – 3.72 (m, 2H), 3.71 – 3.64 (m, 2H), 3.61 (d, *J* = 9.4 Hz, 2H), 3.54 – 3.48 (m, 3H), 3.39 (d, *J* = 10.3 Hz, 1H), 3.37 – 3.35 (m, 6H), 3.30 (t, *J* = 9.4 Hz, 1H), 2.76 (dd, *J* = 15.3, 4.1 Hz, 1H), 2.22 – 2.20 (m, 2H), 1.85 (dd, *J* = 15.3, 2.9 Hz, 1H), 1.47 (s, 3H), 1.41 (s, 3H), 1.38 (s, 3H), 1.35 (s, 3H), 1.33 (s, 3H), 1.31 (s, 3H), 1.24 – 1.18 (m, 6H). The spectroscopic data coincided with the previous report.<sup>[8]</sup>

Ethyl (4,5:7,8-di-*O*-isopropylidene-3-deoxy- $\beta$ -D-manno-oct-2-ulopyranosyl)onate-(2 $\rightarrow$ 6)-methyl 2-*O*-benzyl-4,6-*O*-benzylidene- $\alpha$ -D-mannopyranoside (46z $\beta$ )<sup>[11]</sup>



GP1: 35.7 mg, 85% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 4:1, v/v) **46zβ:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.50 (d, *J* = 6.4 Hz, 2H), 7.44 (d, *J* = 7.2 Hz, 2H), 7.37 – 7.27 (m, 6H), 5.52 (s, 1H), 4.73 (s, 2H), 4.67 (s, 1H), 4.56 (dd, *J* = 10.3, 3.1 Hz, 1H), 4.46 (d, *J* = 7.4 Hz, 1H), 4.29 (q, *J* = 5.8 Hz, 1H), 4.21 (dd, *J* = 9.9, 4.3 Hz, 1H), 4.16 – 4.08 (m, 2H), 4.07 – 4.01 (m, 2H), 3.86 (d, *J* = 1.3 Hz, 1H), 3.80 (t, *J* = 10.2 Hz, 1H), 3.73 (td, *J* = 9.7, 4.4 Hz, 1H), 3.62 (dq, *J* = 10.9, 7.2 Hz, 1H), 3.38 (dd, *J* = 6.1, 1.3 Hz, 1H), 3.34 (s, 3H), 3.26 (dq, *J* = 10.9, 7.2 Hz, 1H), 3.19 (dd, *J* = 15.4, 3.2 Hz, 1H), 1.64 (dd, *J* = 15.1, 1.5 Hz, 1H), 1.42 (s, 3H), 1.37 (s, 3H), 1.28 (s, 3H), 1.25 (s, 3H), 0.85 (t, *J* = 7.1 Hz, 3H).

The spectroscopic data coincided with the previous report.<sup>[11]</sup>

Ethyl (4,5:7,8-di-*O*-isopropylidene-3-deoxy-α-<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2→6)-methyl 2-*O*-benzyl-4,6-*O*-benzylidene-α-<sub>D</sub>-mannopyranoside (46zα)<sup>[11]</sup>



GP1: 4.3 mg, 10% yield from **18**: a colorless syrup. (Petroleum ether/ethyl acetate = 6:1, v/v) **46za:** <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>):  $\delta$  = 7.51 (d, *J* = 7.3 Hz, 2H), 7.40 (d, *J* = 7.6 Hz, 2H), 7.37 – 7.33 (m, 6H), 5.57 (s, 1H), 4.99 (d, *J* = 12.1 Hz, 1H), 4.85 (dd, *J* = 10.1, 2.9 Hz, 1H), 4.78 (d, *J* = 12.1 Hz, 1H), 4.59 (s, 1H), 4.50 (dd, *J* = 11.0, 5.2 Hz, 1H), 4.30 (dd, *J* = 11.0, 6.8 Hz, 1H), 4.25 – 4.19 (m, 3H), 4.13 (dd, *J* = 10.4, 6.3 Hz, 2H), 4.06 – 3.99 (m, 2H), 3.85 (t, *J* = 10.1 Hz, 1H), 3.81 – 3.77 (m, 2H), 3.31 (d, *J* = 9.7 Hz, 1H), 3.27 (s, 3H), 2.54 (dd, *J* = 16.0, 5.4 Hz, 1H), 2.46 (dd, *J* = 15.9, 4.6 Hz, 1H), 1.50 (s, 3H), 1.40 (s, 3H), 1.36 (s, 3H), 1.35 (s, 3H), 1.24 (t, *J* = 7.1 Hz, 3H). The spectroscopic data coincided with the previous report.<sup>[11]</sup>

Ethyl (4,5,7,8-tetra-O-acetyl-2,3-dideoxy-D-manno-oct-2-enopyranosyl)onate (Glycal)<sup>[11]</sup>



Glycal

**Glycal:** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):  $\delta = 5.88$  (s, 1H), 5.75 - 5.68 (m, 1H), 5.47 (d, J = 3.9 Hz, 1H), 5.27 (ddd, J = 9.6, 3.9, 2.5 Hz, 1H), 4.62 (dd, J = 12.3, 2.3 Hz, 1H), 4.34 (d, J = 9.7 Hz, 1H), 4.31 - 4.21 (m, 3H), 2.08 (s, 6H), 2.03 (s, 3H), 2.03 (s, 3H), 1.32 (t, J = 7.1 Hz, 3H).

<sup>13</sup>C NMR (101 MHz, CDCl<sub>3</sub>): δ = 170.7, 170.5, 170.2, 169.6, 161.2, 107.4, 73.5, 67.5, 64.9, 62.0, 61.9, 60.9, 29.8, 20.9, 20.8, 20.8, 20.7, 14.2.

The spectroscopic data coincided with the previous report.<sup>[11]</sup>

## 4 X-ray Crystallography

Appropriate crystals for X-ray diffraction study were obtained by slow evaporation of petroleum ether/dichloromethane (4:1, v/v) solutions of compounds 36pa and 36ta, respectively.

Single crystal X-ray diffraction data of **36pa** were collected on a Rigaku Super Nova, Dual, Mo at zero, AtlasS2 diffractometer. The crystal was kept at 100 K during data collection

Single crystal X-ray diffraction data of **36ta** were collected on a Rigaku Super Nova, Dual, Mo at zero, AtlasS2 diffractometer. The crystal was kept at 100 K during data collection.

Using Olex2, the structure was solved with the ShelXT structure solution program using Direct Methods and refined with the ShelXL refinement package using Least Squares minimization. The disordered solvent molecules were removed with the SQUEEZE routine in PLATONS and the solvent-free model was employed for the final refinement. All non-hydrogen atoms were refined anisotropically. All hydrogen atoms were positioned by geometric idealization. Details of the crystal data and a summary of the intensity data collection parameters for **36pa** and **36ta**, are listed in **Section 5** and **6**. Crystallographic data were deposited at the Cambridge Crystallographic Data Center (CCDC 2382908 for **36pa**, 2382909 for **36ta**). The data can be obtained free of charge from The Cambridge Crystallographic Data Center via www.ccdc.cam.ac.uk/structures.

 4.1 Crystallographic Information of Ethyl (4,5,7,8-tetra-O-acetyl-deoxy-α-D-manno-oct-2-ulopyranosyl)onate-(2→6)-methyl 2,3,4-tri-O-benzyl-α-D-glucopyranoside (CCDC:2382908) :

Empirical formula	C46H56O17
Formula weight	880.90
Temperature/K	99.99(10)
Crystal system	monoclinic
Space group	P2 <sub>1</sub>
a/Å	11.0048(2)
b/Å	9.98913(19)
c/Å	20.5935(4)
α/°	90.00
β/°	99.8007(19)
γ/°	90.00
Volume/Å <sup>3</sup>	2230.76(8)
Z	2



# 4.2 Crystallographic Information of Ethyl (4,5,7,8-tetra-*O*-acetyl-3-deoxyα-<sub>D</sub>-manno-oct-2-ulopyranosyl)onate-(2→1)-Diacetone-β-<sub>D</sub>fructopyranose (CCDC:2382909) :

Empirical formula	C <sub>30</sub> H <sub>44</sub> O <sub>17</sub>
Formula weight	676.65
Temperature/K	100.00(10)
Crystal system	orthorhombic
Space group	P2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>
a/Å	10.19414(11)
b/Å	11.29721(14)
c/Å	28.9840(3)
a/°	90
β/°	90
γ/°	90
Volume/Å <sup>3</sup>	3337.95(7)
Z	4



### 5 Computational methods and data

Computational methods. All calculations were carried out utilizing the Gaussian 16 program package.<sup>[26]</sup> All geometries of reagents, intermediates, transition states, and products were optimized by employing the B3LYP-D3(BJ) functional method<sup>[27-29]</sup>, with the 6-311+g(d,p) basis set<sup>[30-34]</sup> for all elements. The solvent effect of the 1:1 mixture of dichloromethane (DCM) and acetonitrile (MeCN) was considered by the SMD model<sup>[35]</sup> (Eps=22.309, EpsInf=1.91761, HBondAcidity=0.085, SurfaceTensionAtInterface=40.18, CarbonAromaticity=0.000, HBondBasicity=0.185, ElectronegativeHalogenicity=0.333). The vibrational frequencies of all optimized stationary point structures were calculated at the same level of theory to obtain zero-point energies and Gibbs free energies. The optimized stationary point structures were subsequently characterized by frequency analyses at the same level of theory, from which zero-point energies and relative free-energies were obtained, in addition to conforming the stationary points to be either local minima (no imaginary frequencies) or transition states (one imaginary frequency). Moreover, intrinsic reaction coordinate (IRC)<sup>[36]</sup> calculations were carried out to confirm that the optimized transition states connect to their respective reactants and products. The vertical electronic excitations were calculated using timedependent (TD)-B3LYP-D3(BJ) method based on the ground-state geometry optimized at the same level. Using SHERMO program to calculate the solutional free energy for all species (sclZPE= 0.9887).[21]

**Table S8** The calculated total free energies in solution  $G_s$  in a.u. in the DCM/MeCN = 1:1 solvent (1M) with the temperature of 195.15K or 243.15K or 298.15K at B3LYP-D3(BJ)/6-311+g(d,p)/SMD level of theory.

Species	Gs (195.15K)	Gs (243.15K)	Gs (298.15K)
18 (Kdo-STol)	-2197.8900359	-2197.9029336	-2197.9195699
31 (Umemoto's reagent)	-1197.8775736	-1197.8844240	-1197.8930142
·CF <sub>3</sub>	-337.6730806	-337.6770714	-337.6818092
<b>R</b> <sub>1</sub> S <sup>.+</sup>	-860.1557736	-860.1615760	-860.1687879
47 (R <sub>1</sub> S)	-860.3725746	-860.3782363	-860.3852741
32	-2535.5624430	-2535.5769012	-2535.5954980
18.+	-2197.6759662	-2197.6889964	-2197.7058143
48 (CF <sub>3</sub> STol)	-1006.9284413	-1006.9347790	-1006.9426146
•33	-1528.6649174	-1528.6763498	-1528.6909176
33	-1528.4836024	-1528.4947911	-1528.5090836
34α	-1661.2699824	-1661.2821373	-1661.2977007
34'α	-2623.0842285	-2623.0983855	-2623.1166663
34β	-1661.2645813	-1661.2765824	-1661.2919831
35α	-2543.8789626	-2543.8934984	-2543.9124082
35β	-2543.8779263	-2543.8924308	-2543.9113141
35'β	-3505.6913746	-3505.7079052	-3505.7295104
36iβ	-1874.8961041	-1874.9089049	-1874.9253841
36ia	-1874.8986682	-1874.911417	-1874.9278319
MeCN	-132.7794377	-132.7830016	-132.7872550
-OTf	-961.8099933	-961.8150779	-961.8212866
<b>S</b> 9	-346.8014448	-346.8065795	-346.8128453
ТfOH	-962.2200518	-962.2254561	-962.2320705
(p-Tol)2SO	-1015.3574194	-1015.3647046	-1015.3738369
TS1	-2969.8732014	-2969.8890643	-2969.9096697
TS2	-2676.6155262	-2676.6312120	-2676.6516488
49	-2521.7397694	-2521.7553672	-2521.7759529
50a	-2654.5226038	-2654.5391082	-2654.5609078
50β	-2654.5181296	-2654.5344880	-2654.5561365
51	-2584.5977885	-2584.6126451	-2584.6323135

52α	-2717.3811940	-2717.3969660	-2717.4178623
52β	-2717.3781080	-2717.3938250	-2717.4146472
53	-1151.1840970	-1151.1929799	-1151.2043784
54α	-1283.9635329	-1283.9732496	-1283.9857950
54β	-1283.9638094	-1283.9736698	-1283.9863716

18			
0 1			
С	-0.91820400	-1.33243600	-0.09442300
0	-0.34058600	-0.19221400	-0.66979700
С	0.12170100	-2.43695100	0.15561800
С	0.77762400	0.37127900	0.01847600
Н	-0.32845900	-3.26747400	0.69588400
Н	0.45930600	-2.80336300	-0.81681800
С	1.31297000	-1.88599200	0.92316300
С	1.88880000	-0.64962500	0.24027700
Н	0.45983200	0.73503100	1.00040500
С	1.22973300	1.53812600	-0.85903000
Н	1.04010100	-1.61399800	1.94288700
Н	2.67753000	-0.21064800	0.84479400
Н	1.46674200	1.16899400	-1.85631200
С	0.19569800	2.64120900	-0.99127100
Н	-0.73460100	2.22788400	-1.37628400
Н	0.55602700	3.42450500	-1.65470700
С	-2.00026900	-1.78875700	-1.08348400
0	-2.37862600	-1.13306000	-2.02263700
0	-2.46209100	-2.99468000	-0.75947800
С	-3.54021400	-3.53123000	-1.58218500
Н	-4.35207700	-2.80255800	-1.59737200
Н	-3.16286200	-3.65683500	-2.59870800
С	-3.96529200	-4.84314400	-0.96721300
Н	-4.33150300	-4.69794200	0.05208800
Н	-4.77319000	-5.27368900	-1.56488200
Н	-3.13666100	-5.55537200	-0.94702400
С	-3.10901000	0.09544300	1.01019200
С	-4.37622300	-0.45210100	0.79000600
С	-2.90514700	1.46391800	0.81920700
С	-5.42209000	0.36418100	0.36847400
Н	-4.54198700	-1.51124000	0.94632000
С	-3.95683600	2.26846400	0.39012400
Н	-1.93284100	1.90051400	1.00210400
С	-5.22894000	1.73390200	0.15307300
Н	-6.40248600	-0.06981500	0.20249600
Н	-3.78639800	3.32965300	0.24045900
С	-6.35282400	2.60420900	-0.34312100
Н	-7.32379100	2.22122800	-0.02128300

**Table S9** Coordinates of all Stationary points for the reaction, computed at B3LYP-D3(BJ)/6-311+g(d,p)/SMD level in DCM/MeCN = 1:1 solvent.

H   -6.24681100   3.63114600   0.01369700     H   -6.35853900   2.63639100   -1.43847400     S   -1.76659400   -0.95646200   1.55255400     O   2.30166500   -2.93502700   0.96887900     O   2.42512100   -1.02036400   -1.04771800     O   2.42391300   2.05279700   -0.23478200     O   -2.1174500   3.19815700   0.30373500     C   3.16391200   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     C   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.5153500   4.34592000   2.76606500     H   0.56409500   3.98062300   2.76606500     H   0.56409500   3.5124900   0.53293500     H   0.51054500   2.25644700				
H   -6.35853900   2.63639100   -1.43847400     S   -1.76659400   -0.95646200   1.55255400     O   2.30166500   -2.93502700   0.96887900     O   2.42512100   -1.02036400   -1.04771800     O   2.42391300   2.05279700   -0.23478200     O   -0.11174500   3.19815700   0.30373500     C   3.19813900   -2.91040100   1.98467600     O   -3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.0540200     O   4.54002400   -0.97698700   -0.2540200     C   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.5153500   3.8862300   2.76606500     H   0.56409500   3.98062300   2.76606500     H   0.56409500   3.98062300   2.31827000     C   4.52553500   3.5124700	Н	-6.24681100	3.63114600	0.01369700
S   -1.76659400   -0.95646200   1.55255400     O   2.30166500   -2.93502700   0.96887900     O   2.42512100   -1.02036400   -1.04771800     O   2.42391300   2.05279700   -0.23478200     O   -0.11174500   3.19815700   0.30373500     C   3.19813900   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.30785600   2.58369300   -2.24089800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     C   4.52535300   3.10267700   -0.21902500     H   0.51018400   5.70471900   2.31827000     C   4.52555100   3.351249	Н	-6.35853900	2.63639100	-1.43847400
O   2.30166500   -2.93502700   0.96887900     O   2.42512100   -1.02036400   -1.04771800     O   2.42391300   2.05279700   -0.23478200     O   -0.11174500   3.19815700   0.30373500     C   3.19813900   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.5869300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.5649500   3.98062300   2.20622400     C   4.52535300   3.10267700   -2.1902500     H   4.56255100   3.35124900   -0.38649100     H   4.369770600   -2.564470	S	-1.76659400	-0.95646200	1.55255400
O   2.42512100   -1.02036400   -1.04771800     O   2.42391300   2.05279700   -0.23478200     O   -0.11174500   3.19815700   0.30373500     C   3.19813900   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04077100     C   0.12956200   4.71335800   2.0796200     H   0.51018400   5.70471900   2.31827000     H   0.51018400   5.70471900   2.31827000     C   4.52535300   3.10267700   -0.21902500     H   4.8317070   2.37331900   0.53293500     H   5.36525100   3.35124900<	Ο	2.30166500	-2.93502700	0.96887900
O   2.42391300   2.05279700   -0.23478200     O   -0.11174500   3.19815700   0.30373500     C   3.19813900   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.51018400   5.70471900   2.31827000     H   0.51018400   5.70471900   2.31827000     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   4.52555100   3.35124900   -8.6849100     H   5.26447000   -1.5647000 </td <td>0</td> <td>2.42512100</td> <td>-1.02036400</td> <td>-1.04771800</td>	0	2.42512100	-1.02036400	-1.04771800
O   -0.11174500   3.19815700   0.30373500     C   3.19813900   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76605500     H   0.51018400   5.70471900   2.31827000     H   0.51018400   5.70471900   2.31827000     H   4.83170700   2.37331900   0.53293500     H   4.56255100   3.35124900   -0.86849100     H   4.19100100   4.00267400   -3.27624100     H   5.216497000   -1.56447000	Ο	2.42391300	2.05279700	-0.23478200
C   3.19813900   -2.91040100   1.98467600     O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   4.83170700   2.37624100     H   4.19100100   4.00267400   -3.27624100     H   3.69776600   -2.53342700   -2.78910200	Ο	-0.11174500	3.19815700	0.30373500
O   3.16391200   -2.09383700   2.87676900     C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   -0.95458500   3.6324700   2.30622400     C   4.53170700   2.37331900   0.53293500     H   5.36255100   3.35124900   -0.86849100     H   4.19100100   4.00267400   -3.27624100     H   5.21649700   -1.56447000<	С	3.19813900	-2.91040100	1.98467600
C   3.76696200   -1.15838200   -1.16736200     O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     C   4.52535300   3.10267700   -0.21902500     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.8170700   2.37331900   0.53293500     H   5.36255100   3.35124900   -3.86849100     H   4.19100100   4.00267400   -3.26447000     H   5.21649700   -1.60443200   -2.66465400     H   3.69776600   -2.53342700	Ο	3.16391200	-2.09383700	2.87676900
O   4.54002400   -0.97698700   -0.25460200     C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     C   4.52535300   3.10267700   -0.21902500     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   4.83170700   2.37331900   -0.86849100     H   4.19100100   4.00267400   0.30469700     C   4.13397900   -1.55647000   -2.56447000     H   3.69770600   -2.53342700   -2.78910200     C   4.20446000   -4.01025900	С	3.76696200	-1.15838200	-1.16736200
C   3.38872300   2.56752200   -1.03407800     O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   5.36255100   3.35124900   -0.86849100     H   4.19100100   4.00267400   0.30469700     C   4.13397900   -1.55647000   -2.56447000     H   3.69770600   -2.53342700   -2.78910200     C   4.20446000   -4.01025900   1.83516300     H   4.81963000   -3.81229100   0.95328600     H   4.83822100   -4.05528900<	0	4.54002400	-0.97698700	-0.25460200
O   3.30785600   2.58369300   -2.24089800     C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   5.36255100   3.35124900   -0.86849100     H   4.19100100   4.00267400   0.30469700     C   4.13397900   -1.55647000   -2.56447000     H   3.69770600   -2.53342700   -2.78910200     C   4.20446000   -4.01025900   1.83516300     H   4.81963000   -3.81229100   0.95328600     H   4.83822100   -4.05528900   2.71876900     H   4.83822100   -0.20968300<	С	3.38872300	2.56752200	-1.03407800
C   0.50153500   4.34592000   0.67465800     O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   5.36255100   3.35124900   -0.86849100     H   4.19100100   4.00267400   0.30469700     C   4.13397900   -1.55647000   -2.56447000     H   3.72245500   -0.83729400   -3.27624100     H   3.69770600   -2.53342700   -2.78910200     C   4.20446000   -4.01025900   1.83516300     H   4.81963000   -3.81229100   0.95328600     H   4.83822100   -4.05528900   2.71876900     H   4.83862100   -0.20968300	0	3.30785600	2.58369300	-2.24089800
O   1.24514500   4.97120100   -0.04677100     C   0.12956200   4.71335800   2.07996200     H   0.56409500   3.98062300   2.76606500     H   0.51018400   5.70471900   2.31827000     H   -0.95458500   4.68395200   2.20622400     C   4.52535300   3.10267700   -0.21902500     H   4.83170700   2.37331900   0.53293500     H   5.36255100   3.35124900   -0.86849100     H   4.19100100   4.00267400   0.30469700     C   4.13397900   -1.55647000   -2.56447000     H   3.72245500   -0.83729400   -3.27624100     H   5.21649700   -1.60443200   -2.66465400     H   3.69776600   -2.53342700   -2.78910200     C   4.20446000   -4.01025900   1.83516300     H   4.81963000   -3.81229100   0.95328600     H   4.83822100   -4.96701200   1.68206200 <b>31</b> I   I	С	0.50153500	4.34592000	0.67465800
C0.129562004.713358002.07996200H0.564095003.980623002.76606500H0.510184005.704719002.31827000H-0.954585004.683952002.20622400C4.525353003.10267700-0.21902500H4.831707002.373319000.53293500H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200S1IIIC1.27694000-0.20968300-0.532290100C1.5544800-2.370241000.45667900C1.5548400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Ο	1.24514500	4.97120100	-0.04677100
H0.564095003.980623002.76606500H0.510184005.704719002.31827000H-0.954585004.683952002.20622400C4.525353003.10267700-0.21902500H4.831707002.373319000.53293500H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200 <b>31</b> IIIIIIIIIC1.27694000-0.20968300-0.53290100C1.55448400-2.370241000.45667900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	0.12956200	4.71335800	2.07996200
H0.510184005.704719002.31827000H-0.954585004.683952002.20622400C4.525353003.10267700-0.21902500H4.831707002.373319000.53293500H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.6820620031IIIC1.27694000-0.20968300-0.53290100C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	0.56409500	3.98062300	2.76606500
H-0.954585004.683952002.20622400C4.525353003.10267700-0.21902500H4.831707002.373319000.53293500H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200JI11C1.27694000-0.20968300-0.53290100C1.55448400-2.370241000.45667900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	0.51018400	5.70471900	2.31827000
C4.525353003.10267700-0.21902500H4.831707002.373319000.53293500H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200JIC1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	-0.95458500	4.68395200	2.20622400
H4.831707002.373319000.53293500H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200JIC1.27694000-0.20968300-0.53290100C1.27694000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	4.52535300	3.10267700	-0.21902500
H5.362551003.35124900-0.86849100H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200JIC1.27694000-0.20968300-0.53290100C1.27694000-0.20968300-0.53290100C1.55448400-2.370241000.45667900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	4.83170700	2.37331900	0.53293500
H4.191001004.002674000.30469700C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200J1C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	5.36255100	3.35124900	-0.86849100
C4.13397900-1.55647000-2.56447000H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.682062003111C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	4.19100100	4.00267400	0.30469700
H3.72245500-0.83729400-3.27624100H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.6820620031C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	4.13397900	-1.55647000	-2.56447000
H5.21649700-1.60443200-2.66465400H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200J1C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	3.72245500	-0.83729400	-3.27624100
H3.69770600-2.53342700-2.78910200C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200 <b>31</b> C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	5.21649700	-1.60443200	-2.66465400
C4.20446000-4.010259001.83516300H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.68206200 <b>31</b>	Н	3.69770600	-2.53342700	-2.78910200
H4.81963000-3.812291000.95328600H4.83822100-4.055289002.71876900H3.70084100-4.967012001.6820620031IIC1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	4.20446000	-4.01025900	1.83516300
H4.83822100-4.055289002.71876900H3.70084100-4.967012001.6820620031	Н	4.81963000	-3.81229100	0.95328600
H3.70084100-4.967012001.68206200311 1C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	4.83822100	-4.05528900	2.71876900
31   1 1   C 1.27694000 -0.20968300 -0.53290100   C 0.69756900 -1.36487200 0.01691500   C 2.63830000 -0.00699700 -0.67391900   C 1.55448400 -2.37024100 0.45667900   C 3.47287100 -1.02663600 -0.21346700   H 3.04209100 0.89377300 -1.11704300   C 2.93355500 -2.18826300 0.34289300   H 1.15053300 -3.28119300 0.88094700   H 4.54599900 -0.91166300 -0.29833800	Н	3.70084100	-4.96701200	1.68206200
1 1C1.27694000-0.20968300-0.53290100C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	31			
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C0.69756900-1.364872000.01691500C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	1.27694000	-0.20968300	-0.53290100
C2.63830000-0.00699700-0.67391900C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	0.69756900	-1.36487200	0.01691500
C1.55448400-2.370241000.45667900C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	2.63830000	-0.00699700	-0.67391900
C3.47287100-1.02663600-0.21346700H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	1.55448400	-2.37024100	0.45667900
H3.042091000.89377300-1.11704300C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	С	3.47287100	-1.02663600	-0.21346700
C2.93355500-2.188263000.34289300H1.15053300-3.281193000.88094700H4.54599900-0.91166300-0.29833800	Н	3.04209100	0.89377300	-1.11704300
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Н 4.54599900 -0.91166300 -0.29833800	Н	1.15053300	-3.28119300	0.88094700
	Н	4.54599900	-0.91166300	-0.29833800

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С	-3.03321800	-2.07105400	0.33740800
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·CF <sub>3</sub>			
0 2			
С	0.00000000	0.00000000	0.32782200
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F	-1.09322800	-0.63117500	-0.07284900
F <b>R</b> <sub>1</sub> S <sup>.+</sup>	-1.09322800	-0.63117500	-0.07284900
F <b>R</b> <sub>1</sub> <b>S</b> <sup>.+</sup> 1 2	-1.09322800	-0.63117500	-0.07284900
F <b>R</b> <sub>1</sub> S <sup>.+</sup> 1 2 C	-1.09322800 1.25535400	-0.63117500 -0.71388700	-0.07284900 0.00016400
F R <sub>1</sub> S <sup>.+</sup> 1 2 C C	-1.09322800 1.25535400 0.73097700	-0.63117500 -0.71388700 0.60354900	-0.07284900 0.00016400 -0.00022000
F <b>R</b> <sub>1</sub> S <sup>.+</sup> 1 2 C C C C	-1.09322800 1.25535400 0.73097700 2.63118600	-0.63117500 -0.71388700 0.60354900 -0.98399100	-0.07284900 0.00016400 -0.00022000 0.00031400
F R <sub>1</sub> S <sup>.+</sup> 1 2 C C C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700
F R <sub>1</sub> S <sup>.+</sup> 1 2 C C C C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300
F <b>R</b> <sub>1</sub> <b>S</b> <sup>+</sup> 1 2 C C C C C H	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600
F R <sub>1</sub> S <sup>.+</sup> 1 2 C C C C C H C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000
F R <sub>1</sub> S <sup>.+</sup> 1 2 C C C C C H C H	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700
F R <sub>1</sub> S <sup>++</sup> 1 2 C C C C H C H H H	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500
F R <sub>1</sub> S <sup>++</sup> 1 2 C C C C C H H H H	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500 0.00009900
F R <sub>1</sub> S <sup>+</sup> 1 2 C C C C H H H H H C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500 0.00009900 0.00016500
F R <sub>1</sub> S <sup>++</sup> 12 C C C C C H C H H H C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400 -2.63118400	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700 -0.98399200	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500 0.00050500 0.00009900 0.00016500 0.00031400
F R <sub>1</sub> S <sup>++</sup> 1 2 C C C C C H H H H H C C C C C C C C C C C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400 -2.63118400 -0.73097800	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700 -0.98399200 0.60354800	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500 0.00009900 0.00016500 0.00031400 -0.00022000
F R <sub>1</sub> S <sup>+</sup> 1 2 C C C C C H H C H H H C C C C C C C C C C C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400 -2.63118400 -0.73097800 -3.50184300	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700 -0.98399200 0.60354800 0.10042400	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00023600 0.00023600 0.00012000 -0.00043700 0.00050500 0.00050500 0.00009900 0.00016500 0.00031400 -0.00022000 0.00040400
F R <sub>1</sub> S <sup>++</sup> 1 2 C C C C C H H H H H C C C C C H H H H H H H H H H H H H	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400 -2.63118400 -0.73097800 -3.50184300 -3.00122500	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700 -0.98399200 0.60354800 0.10042400 -2.00172300	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00012000 -0.00043700 0.00050500 0.00050500 0.00009900 0.00016500 0.00031400 -0.00022000 0.00040400 0.00023600
F R <sub>1</sub> S <sup>+</sup> 1 2 C C C C C H H C H H H C C C C H H H C C C H H H C C C H H H C C C H H C C H C C H H C C H H C C H H C C H H C H H H H C C H H C C H H C C H H C H H H H H H H C C C H H H H H H C C C H H C C H H C C H H C C H H C C H H H H H C C C H H H H H C C C C H H C C C H H H H C C C H H H H C C C H H H H C C C H H H H C C C C H H H C C C C H H H C C C C H H H H C C C C C C C C C C C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400 -2.63118400 -0.73097800 -3.50184300 -3.00122500 -1.61931400	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700 -0.98399200 0.60354800 0.10042400 -2.00172300 1.66459300	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500 0.000050500 0.00009900 0.00016500 0.00022000 0.00022000 0.00022000 0.00023600 -0.00028800
F R <sub>1</sub> S <sup>++</sup> 12 C C C C C H H H H H C C C H H H C C C H H C C C C H H H C C C C C C C C C C C C C	-1.09322800 1.25535400 0.73097700 2.63118600 1.61931200 3.50184300 3.00122700 3.00302200 1.25913100 4.57055300 3.69294000 -1.25535400 -2.63118400 -0.73097800 -3.50184300 -3.00122500 -1.61931400 -3.00302500	-0.63117500 -0.71388700 0.60354900 -0.98399100 1.66459400 0.10042500 -2.00172200 1.40496500 2.68574500 -0.07089700 2.23998400 -0.71388700 -0.98399200 0.60354800 0.10042400 -2.00172300 1.66459300 1.40496300	-0.07284900 0.00016400 -0.00022000 0.00031400 -0.00028700 0.00040300 0.00023600 0.00012000 -0.00043700 0.00050500 0.00050500 0.00009900 0.00016500 0.00016500 0.00023600 -0.00028800 0.00011900

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С	1.18923800	1.28112100	-1.41534300
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H-0.784303001.95917700-1.91921400H0.513321003.09583800-2.36474000C-2.02296400-2.06828200-1.29397200O-2.40046600-1.51780800-2.29860600O-2.48199400-3.23289700-0.84167400C-3.55451800-3.86195800-1.60474700H-4.36719000-3.14149200-1.70799100H-3.1703000-4.10154900-2.59786500C-3.98191500-5.09613400-0.84705400H-4.35397900-4.836421000.14709200H-4.78632100-5.59266200-1.39627400C-3.103780000.080606000.60054100C-3.103780000.080606000.60054100C-3.103780000.080606000.60054100C-2.851830001.423696000.31370200C-2.851830001.423696000.31370200C-2.851830001.423696000.31370200C-3.870956002.2773900-0.18798200H-1.869637001.842043000.48146000C-5.156798001.71787900-0.40408500H-6.38986800-0.03899500-0.24109000H-7.231767002.26116300-0.63686100H-6.245408002.58477600-0.7018300C-0.051071001.068900003.0605400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F <t< th=""><th></th><th></th><th></th><th></th></t<>				
H   0.51332100   3.09583800   -2.36474000     C   -2.02296400   -2.06828200   -1.29397200     O   -2.40046600   -1.51780800   -2.29860600     O   -2.48199400   -3.23289700   -0.84167400     C   -3.55451800   -3.86195800   -1.60474700     H   -4.36719000   -3.14149200   -1.70799100     H   -4.36719000   -3.14149200   -1.70799100     H   -3.1703000   -4.10154900   -2.59786500     C   -3.98191500   -5.90613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.3532900   -5.80071700   -0.74155100     C   -3.10378000   0.0806600   0.60054100     C   -3.8527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -2.85183000   1.48076400   0.63422000     C   -5.8778600   2.2773900   -0.18798200     H   -1.86963700	Н	-0.78430300	1.95917700	-1.91921400
C   -2.02296400   -2.06828200   -1.29397200     O   -2.40046600   -1.51780800   -2.29860600     O   -2.48199400   -3.23289700   -0.84167400     C   -3.55451800   -3.86195800   -1.60474700     H   -4.36719000   -3.14149200   -1.70799100     H   -3.17003000   -4.10154900   -2.59786500     C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.3632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -3.1378000   0.42369600   0.31370200     C   -2.85183000   1.42369600   0.31370200     C   -3.87095600   2.22773900   -0.18798200     H   -4.58794600   1.148076400   0.63422000     C   -5.15679800   1.71787900   -0.40408500     H   -6.245408800 <td>Н</td> <td>0.51332100</td> <td>3.09583800</td> <td>-2.36474000</td>	Н	0.51332100	3.09583800	-2.36474000
O   -2.40046600   -1.51780800   -2.29860600     O   -2.48199400   -3.23289700   -0.84167400     C   -3.55451800   -3.86195800   -1.60474700     H   -4.36719000   -3.14149200   -1.70799100     H   -3.17003000   -4.10154900   -2.59786500     C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.78632100   -5.59266200   -1.39627400     H   -3.10378000   0.08060600   0.60054100     C   -3.10378000   0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -3.87095600   2.22773900   -0.18798200     H   -4.58794600   1.48076400   0.63422000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.36396400   3.26930600   -0.41093300     C   -6.24540800	С	-2.02296400	-2.06828200	-1.29397200
O   -2.48199400   -3.23289700   -0.84167400     C   -3.55451800   -3.86195800   -1.60474700     H   -4.36719000   -3.14149200   -1.70799100     H   -3.17003000   -4.10154900   -2.59786500     C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.78632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -2.85183000   1.42369600   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.44186000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.3899500   -0.24109000     H   -6.24079600	0	-2.40046600	-1.51780800	-2.29860600
C   -3.55451800   -3.86195800   -1.60474700     H   -4.36719000   -3.14149200   -1.70799100     H   -3.17003000   -4.10154900   -2.59786500     C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.78632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.44186000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.24540800	0	-2.48199400	-3.23289700	-0.84167400
H   -4.36719000   -3.14149200   -1.70799100     H   -3.17003000   -4.10154900   -2.59786500     C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.3532100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -2.85183000   1.42369600   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.36396400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -6.10643100	С	-3.55451800	-3.86195800	-1.60474700
H   -3.17003000   -4.10154900   -2.59786500     C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.78632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -7.23176700   2.26116300   -0.63868100     H   -7.23176700   2.26116300   -0.63868100     H   -6.264540800	Н	-4.36719000	-3.14149200	-1.70799100
C   -3.98191500   -5.09613400   -0.84705400     H   -4.35397900   -4.83642100   0.14709200     H   -4.78632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.36396400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -6.10643100   3.63207400   -0.70104300     H   -6.10643100   3.63207400   -0.70104300     F   -0.99171200	Н	-3.17003000	-4.10154900	-2.59786500
H   -4.35397900   -4.83642100   0.14709200     H   -4.78632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.364540800   2.58477600   -0.97836100     H   -7.23176700   2.26116300   -0.63868100     H   -6.10643100   3.63207400   -0.70104300     H   -6.10643100   3.63207400   -0.70104300     H   -6.245079600	С	-3.98191500	-5.09613400	-0.84705400
H   -4.78632100   -5.59266200   -1.39627400     H   -3.15323900   -5.80071700   -0.74155100     C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.366396400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -6.10643100   3.63207400   -0.70104300     H   -6.24079600   2.53152700   -2.07288200     S   -1.80624200   -0.96959900   1.24073500     C   -0.99171200	Н	-4.35397900	-4.83642100	0.14709200
H-3.15323900-5.80071700-0.74155100C-3.103780000.080606000.60054100C-4.38527100-0.441864000.40295200C-2.851830001.423696000.31370200C-5.397863000.37433700-0.09266400H-4.58794600-1.480764000.63422000C-3.870956002.22773900-0.18798200H-1.869637001.842043000.48146000C-5.156798001.71787900-0.40408500H-6.38986800-0.03899500-0.24109000H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.407677001.83208100-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.	Н	-4.78632100	-5.59266200	-1.39627400
C   -3.10378000   0.08060600   0.60054100     C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.366396400   3.26930600   -0.40408500     H   -3.66396400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -7.23176700   2.26116300   -0.63868100     H   -6.10643100   3.63207400   -0.70104300     H   -6.10643100   3.63207400   -2.07288200     S   -1.80624200   -0.96959900   1.24073500    C   -0.99171200   1	Н	-3.15323900	-5.80071700	-0.74155100
C   -4.38527100   -0.44186400   0.40295200     C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.36996400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -7.23176700   2.26116300   -0.63886100     H   -6.10643100   3.63207400   -0.70104300     H   -6.24079600   2.53152700   -2.07288200     S   -1.80624200   -0.96959900   1.24073500     C   -0.99171200   1.99001700   3.23368500     F   -0.05283800   0.20241800   4.06725600     F   1.14554800	С	-3.10378000	0.08060600	0.60054100
C   -2.85183000   1.42369600   0.31370200     C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.36996400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -7.23176700   2.26116300   -0.63868100     H   -6.10643100   3.63207400   -0.70104300     H   -6.24570600   2.53152700   -2.07288200     S   -1.80624200   -0.96959900   1.24073500     C   -0.05107100   1.06890000   3.06065400     F   -0.05283800   0.20241800   4.06725600     F   -0.05283800   0.20241800   4.06725600     F   1.14554800	С	-4.38527100	-0.44186400	0.40295200
C   -5.39786300   0.37433700   -0.09266400     H   -4.58794600   -1.48076400   0.63422000     C   -3.87095600   2.22773900   -0.18798200     H   -1.86963700   1.84204300   0.48146000     C   -5.15679800   1.71787900   -0.40408500     H   -6.38986800   -0.03899500   -0.24109000     H   -6.36996400   3.26930600   -0.41093300     C   -6.24540800   2.58477600   -0.97836100     H   -6.24540800   2.58477600   -0.97836100     H   -6.10643100   3.63207400   -0.70104300     H   -6.24079600   2.53152700   -2.07288200     S   -1.80624200   -0.96959900   1.24073500     C   -0.05107100   1.06890000   3.06065400     F   -0.05283800   0.20241800   4.06725600     F   -0.05283800   0.20241800   4.06725600     F   0.05283800   -2.95672500   0.91142900     O   2.30928100	С	-2.85183000	1.42369600	0.31370200
H-4.58794600-1.480764000.63422000C-3.870956002.22773900-0.18798200H-1.869637001.842043000.48146000C-5.156798001.71787900-0.40408500H-6.38986800-0.03899500-0.24109000H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	-5.39786300	0.37433700	-0.09266400
C-3.870956002.22773900-0.18798200H-1.869637001.842043000.48146000C-5.156798001.71787900-0.40408500H-6.38986800-0.03899500-0.24109000H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-7.231767002.26116300-0.70104300H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.407677001.83208100-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-4.58794600	-1.48076400	0.63422000
H-1.869637001.842043000.48146000C-5.156798001.71787900-0.40408500H-6.38986800-0.03899500-0.24109000H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.051071001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.86683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	-3.87095600	2.22773900	-0.18798200
C-5.156798001.71787900-0.40408500H-6.38986800-0.03899500-0.24109000H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.407677001.83208100-1.31947500O2.407677001.83208100-0.87600500O3.16212000-2.797605001.92006700O3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-1.86963700	1.84204300	0.48146000
H-6.38986800-0.03899500-0.24109000H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O3.16212000-2.797605001.92006700O3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	-5.15679800	1.71787900	-0.40408500
H-3.663964003.26930600-0.41093300C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.25197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-6.38986800	-0.03899500	-0.24109000
C-6.245408002.58477600-0.97836100H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.25197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-3.66396400	3.26930600	-0.41093300
H-7.231767002.26116300-0.63868100H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.25197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	-6.24540800	2.58477600	-0.97836100
H-6.106431003.63207400-0.70104300H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-7.23176700	2.26116300	-0.63868100
H-6.240796002.53152700-2.07288200S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-6.10643100	3.63207400	-0.70104300
S-1.80624200-0.969599001.24073500C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	Н	-6.24079600	2.53152700	-2.07288200
C-0.051071001.068900003.06065400F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	S	-1.80624200	-0.96959900	1.24073500
F-0.991712001.990017003.23368500F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	-0.05107100	1.06890000	3.06065400
F-0.052838000.202418004.06725600F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	F	-0.99171200	1.99001700	3.23368500
F1.145548001.638949002.94107200O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	F	-0.05283800	0.20241800	4.06725600
O2.27067200-2.956725000.91142900O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	F	1.14554800	1.63894900	2.94107200
O2.39928100-1.28089100-1.31947500O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	0	2.27067200	-2.95672500	0.91142900
O2.407677001.83208100-0.87600500O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	0	2.39928100	-1.28089100	-1.31947500
O-0.072090003.07187000-0.36683300C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	0	2.40767700	1.83208100	-0.87600500
C3.16212000-2.797605001.92006700O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	0	-0.07209000	3.07187000	-0.36683300
O3.11981200-1.872433002.69832200C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	3.16212000	-2.79760500	1.92006700
C3.74171600-1.43457200-1.41417000O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	0	3.11981200	-1.87243300	2.69832200
O4.50867900-1.16240200-0.51921000C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	3.74171600	-1.43457200	-1.41417000
C3.355197002.25283500-1.74792500O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	0	4.50867900	-1.16240200	-0.51921000
O3.241981002.14740500-2.94758600C0.585930004.23103700-0.13215500	С	3.35519700	2.25283500	-1.74792500
C 0.58593000 4.23103700 -0.13215500	0	3.24198100	2.14740500	-2.94758600
	С	0.58593000	4.23103700	-0.13215500

0	1.31157400	4.76397400	-0.94097600
С	0.30109200	4.73755900	1.24989700
Н	0.92195000	4.17951100	1.95682700
Н	0.55493500	5.79437600	1.31474100
Н	-0.74335900	4.57758500	1.51902100
С	4.51531900	2.86008400	-1.02175200
Н	4.79913600	2.24506900	-0.16640600
Н	5.35685700	2.97906200	-1.70177700
Н	4.21369900	3.84160100	-0.64436600
С	4.11751600	-1.97483600	-2.76037700
Н	3.73507200	-1.31675400	-3.54412600
Н	5.19980900	-2.05748200	-2.83782400
Н	3.65938500	-2.95764600	-2.89878200
С	4.16602400	-3.90970200	1.92600700
Н	4.71438300	-3.91154000	0.98099000
Н	4.85884600	-3.77839300	2.75492600
Н	3.65473300	-4.87122200	2.01597200
<b>18</b> <sup>.+</sup>			
12			
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0	-0.12686000	-0.46107400	-0.85953500
С	1.05163100	-2.32049600	0.19874300
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Н	-1.28975300	1.60588600	-1.92637000
Н	-0.68871900	3.27303900	-1.76994800
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С	-1.84758600	-4.81783900	-1.61821900
Н	-2.76109400	-4.38744200	-2.03011400
Н	-1.15586800	-5.03731000	-2.43247800
С	-2.11875000	-6.02204100	-0.75169200

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Н	-2.58690800	-6.79802200	-1.36289000
Н	-1.19247800	-6.42516200	-0.33572300
С	-2.78619300	-0.69723200	0.82307100
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Н	-3.41701600	-0.69037600	2.90874000
С	-4.24166600	0.45599000	-0.70991600
Н	-2.45860100	-0.51429100	-1.32568500
С	-5.10225200	0.81496000	0.35871700
Н	-5.43634400	0.64934500	2.48715600
Н	-4.48573200	0.78200000	-1.71395600
С	-6.30973000	1.64019300	0.09355700
Н	-6.84493400	1.88813300	1.00925600
Н	-6.02925400	2.56282300	-0.42683900
Н	-6.98651300	1.10327400	-0.58240700
S	-1.40372300	-1.61470900	1.27095100
0	3.17138000	-1.91167200	1.18104300
0	2.73809000	-0.19417500	-0.97418700
0	1.36148100	2.75651400	-0.21586900
0	-1.51319700	2.41270300	-0.05730900
С	3.89863500	-1.50283700	2.25431500
0	3.48023900	-0.71070800	3.06569900
С	4.02828800	0.23090300	-1.02085700
0	4.57099300	0.79465700	-0.09995800
С	2.37598500	3.42052500	-0.83198900
0	2.69324700	3.22114000	-1.98074900
С	-1.93226400	3.63146700	0.35151500
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С	-2.70185700	3.52813900	1.63464600
Н	-2.27276800	2.77053900	2.29057300
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С	3.01115700	4.39890800	0.10568100
Н	3.37656900	3.87561600	0.99237700
Н	3.83426500	4.90754600	-0.39197200
Н	2.26532200	5.12766800	0.43313500
С	4.64816700	-0.10763900	-2.34011500
Н	3.99221300	0.19768500	-3.15727600
Н	5.61707300	0.37951900	-2.42971000
Н	4.77716300	-1.19219000	-2.40222900

С	5.24093500	-2.16514500	2.27064100
Н	5.79905800	-1.87658600	1.37634100
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Н	5.12095500	-3.25087900	2.25165500
48			
01			
С	-0.27886900	-0.03477700	-0.65169500
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H 1.59467400 -2.14651300 -3.0539900   O 0.46037900 -3.25042900 -1.64537600   C -0.59492700 -3.65100800 -2.38768500   O -0.93988000 -3.07706700 -3.39740200   C -1.28366900 -4.83275000 -1.77708500   H -2.06732300 -4.44894600 -1.11529400   H -0.59472300 -5.42100 -2.55852900   H -2.76235200 0.11342700 -2.03565300   S -1.28159500 1.10918900 0.01202300   O 0.03368800 2.14586200 0.29417900   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.38356000 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.33686100 -1.87353800 3.31736400   H -0.30354100 -0.1722000 4.63879800   H -0.43780400	Н	0.33691700	-1.23998100	-2.13950800
O 0.46037900 -3.25042900 -1.64537600   C -0.59492700 -3.65100800 -2.38768500   O -0.93988000 -3.07706700 -3.39740200   C -1.28366900 -4.83275000 -1.77708500   H -2.06732300 -4.44894600 -1.11529400   H -0.59472300 -5.44143000 -1.19192700   H -1.75525400 -5.42801500 -2.55852900   H 2.76235200 0.11342700 -2.03565300   S -1.28159500 1.10918900 0.01202300   O 0.03368800 2.14586200 0.29417900   C -1.03519200 -0.04079900 1.34762000   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.38356000 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.33686100 -1.87353800 3.3176400   H -1.04776500	Н	1.59467400	-2.14651300	-3.00539900
C -0.59492700 -3.65100800 -2.38768500   O -0.93988000 -3.07706700 -3.39740200   C -1.28366900 -4.83275000 -1.77708500   H -2.06732300 -4.44894600 -1.11529400   H -0.59472300 -5.44143000 -1.19192700   H -1.75525400 -5.42801500 -2.55852900   H 2.76235200 0.11342700 -2.03565300   S -1.28159500 1.10918900 0.01202300   O 0.03368800 2.14586200 0.29417900   C -1.03519200 -0.04079900 1.34762000   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.3835600 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.33686100 -1.87353800 3.31736400   H -0.43780400 -3.33879000 1.74170300   C -2.53018400	0	0.46037900	-3.25042900	-1.64537600
O -0.93988000 -3.07706700 -3.39740200   C -1.28366900 -4.83275000 -1.77708500   H -2.06732300 -4.44894600 -1.11529400   H -0.59472300 -5.44143000 -1.19192700   H -1.75525400 -5.42801500 -2.55852900   H 2.76235200 0.11342700 -2.03565300   S -1.28159500 1.10918900 0.01202300   O 0.03368800 2.14586200 0.29417900   C -1.03519200 -0.04079900 1.34762000   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.38356000 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.3586100 -1.87353800 3.31736400   H -0.403784400 -3.33879000 1.74170300   C -2.53018400 2.24778700 0.60018400   C -3.51692400	С	-0.59492700	-3.65100800	-2.38768500
C -1.28366900 -4.83275000 -1.77708500   H -2.06732300 -4.44894600 -1.11529400   H -0.59472300 -5.44143000 -1.19192700   H -1.75525400 -5.42801500 -2.55852900   H 2.76235200 0.11342700 -2.03565300   S -1.28159500 1.10918900 0.01202300   O 0.03368800 2.14586200 0.29417900   C -1.03519200 -0.04079900 1.34762000   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.38356000 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.5344400 -2.29264700 1.99960300   H -1.04776500 -1.71226100 -0.00922400   C -0.33686100 -1.87353800 3.31736400   H -0.43780400 2.24778700 0.60018400   C -2.53018400	0	-0.93988000	-3.07706700	-3.39740200
H-2.06732300-4.44894600-1.11529400H-0.59472300-5.44143000-1.19192700H-1.75525400-5.42801500-2.55852900H2.762352000.11342700-2.03565300S-1.281595001.109189000.01202300O0.033688002.145862000.29417900C-1.03519200-0.040799001.34762000C-0.823646000.412460002.64926500C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-3.548271004.406490000.42538600H-3.550788000.813194001.32252600H-3.556086005.409234000.01352500C-5.658221004.963906001.69861400H-5.918452004.866509002.75526800H-5.380975006.00476001.49872000C0.03585000-2.861772004.38585100H-5.38	С	-1.28366900	-4.83275000	-1.77708500
H-0.59472300-5.44143000-1.19192700H-1.75525400-5.42801500-2.55852900H2.762352000.11342700-2.03565300S-1.281595001.109189000.01202300O0.033688002.145862000.29417900C-1.03519200-0.040799001.34762000C-0.823646000.412460002.64926500C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.0922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-3.548271004.406490000.42538600H-3.527058000.813194001.82252600H-3.55086005.409234000.01352500C-5.658221004.963906001.69861400H-5.38975006.00476001.49872000C0.03585000-2.861772004.38585100H-5.380975006.00476001.4985200H-5.380975006.00476001.4985200H-5.38097500 <td>Н</td> <td>-2.06732300</td> <td>-4.44894600</td> <td>-1.11529400</td>	Н	-2.06732300	-4.44894600	-1.11529400
H-1.75525400-5.42801500-2.55852900H2.762352000.11342700-2.03565300S-1.281595001.109189000.01202300O0.033688002.145862000.29417900C-1.03519200-0.040799001.34762000C-0.823646000.412460002.64926500C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-2.530184002.247787000.60018400C-2.539529003.527740000.04767900C-3.516924001.821839001.48257500C-2.539529003.527740000.04767900C-3.548271004.406490000.42538600H-3.527058000.813194001.87319900C-3.548271004.018691001.32252600H-5.289470002.396069002.53100300H-5.568221004.963906001.69861400H-5.568221004.966590002.75526800H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-5.380975	Н	-0.59472300	-5.44143000	-1.19192700
H2.762352000.11342700-2.03565300S-1.281595001.109189000.01202300O0.033688002.145862000.29417900C-1.03519200-0.040799001.34762000C-0.823646000.412460002.64926500C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-2.539529003.527740000.04767900C-3.516924001.821839001.48557500C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-3.548271004.018691001.32252600H-5.289470002.396069002.53100300H-5.568221004.963906001.69861400H-5.918452004.866509002.75526800H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-5.380975	Н	-1.75525400	-5.42801500	-2.55852900
S -1.28159500 1.10918900 0.01202300   O 0.03368800 2.14586200 0.29417900   C -1.03519200 -0.04079900 1.34762000   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.38356000 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.55344400 -2.29264700 1.99960300   H -1.04776500 -1.71226100 -0.00922400   C -0.33686100 -1.87353800 3.31736400   H -0.43780400 -3.33879000 1.74170300   C -2.53018400 2.24778700 0.60018400   C -2.53952900 3.52774000 0.04767900   C -3.51692400 1.82183900 1.48557500   C -3.54827100 4.40649000 0.42538600   H -3.5275800 0.81319400 1.87319900   C -3.54827100 4	Н	2.76235200	0.11342700	-2.03565300
O 0.03368800 2.14586200 0.29417900   C -1.03519200 -0.04079900 1.34762000   C -0.82364600 0.41246000 2.64926500   C -0.89631800 -1.38356000 1.00840700   C -0.47864400 -0.51245500 3.62443800   H -0.90854900 1.46267700 2.89611000   C -0.55344400 -2.29264700 1.99960300   H -1.04776500 -1.71226100 -0.00922400   C -0.33686100 -1.87353800 3.31736400   H -0.30354100 -0.17232000 4.63879800   H -0.43780400 -3.33879000 1.74170300   C -2.53018400 2.24778700 0.60018400   C -3.51692400 1.82183900 1.48557500   C -2.53952900 3.52774000 0.04767900   C -3.54827100 4.40649000 0.42538600   H -1.77386600 3.83308900 -0.65271400   C -3.5608600 <th< td=""><td>S</td><td>-1.28159500</td><td>1.10918900</td><td>0.01202300</td></th<>	S	-1.28159500	1.10918900	0.01202300
C-1.03519200-0.040799001.34762000C-0.823646000.412460002.64926500C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-5.289470002.396069002.53100300H-5.289470002.396069002.53100300H-5.289470002.396069002.5526800H-5.918452004.866509002.75526800H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.214681004.90561400H0.53560200-3.734004003.96046800	0	0.03368800	2.14586200	0.29417900
C-0.823646000.412460002.64926500C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-4.550919004.018691001.32252600H-5.289470002.396069002.53100300H-5.289470002.396069002.53100300H-5.289470002.396069002.75526800H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.214681004.90561400H-0.86197200-3.734004003.96046800	С	-1.03519200	-0.04079900	1.34762000
C-0.89631800-1.383560001.00840700C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-4.550919004.018691001.32252600H-5.289470002.396069002.53100300H-5.658221004.963906001.69861400H-5.918452004.866509002.75526800H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.214681004.90561400H0.53560200-3.734004003.96046800	С	-0.82364600	0.41246000	2.64926500
C-0.47864400-0.512455003.62443800H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-4.550919004.018691001.32252600H-5.289470002.396069002.53100300H-5.658221004.963906001.69861400H-6.560798004.741301001.11896600H-5.918452004.866509002.75526800H-5.380975006.00476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.214681004.90561400H0.53560200-3.734004003.96046800	С	-0.89631800	-1.38356000	1.00840700
H-0.908549001.462677002.89611000C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-4.550919004.018691001.32252600H-5.289470002.396069002.53100300H-5.658221004.963906001.69861400H-5.56082004.741301001.11896600H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.214681004.90561400H0.53560200-3.734004003.96046800	С	-0.47864400	-0.51245500	3.62443800
C-0.55344400-2.292647001.99960300H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-4.550919004.018691001.32252600H-5.289470002.396069002.53100300H-5.658221004.963906001.69861400H-5.918452004.866509002.75526800H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.214681004.90561400H0.53560200-3.734004003.96046800	Н	-0.90854900	1.46267700	2.89611000
H-1.04776500-1.71226100-0.00922400C-0.33686100-1.873538003.31736400H-0.30354100-0.172320004.63879800H-0.43780400-3.338790001.74170300C-2.530184002.247787000.60018400C-3.516924001.821839001.48557500C-3.516924001.821839001.48557500C-2.539529003.527740000.04767900C-4.518156002.717992001.84028200H-3.527058000.813194001.87319900C-3.548271004.406490000.42538600H-1.773866003.83308900-0.65271400C-4.550919004.018691001.32252600H-5.289470002.396069002.53100300H-5.658221004.963906001.69861400H-6.560798004.741301001.11896600H-5.380975006.000476001.49872000C0.03585000-2.861772004.38585100H-0.86197200-3.734004003.96046800	С	-0.55344400	-2.29264700	1.99960300
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С	2.58798800	1.17263800	-0.05390000
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С	4.82123900	0.95229400	-1.18779800
С	3.84021800	2.14979100	-3.50548900
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C 12.16840600 5.42885900 -6.60895700   O 11.72464200 5.92859500 -5.60042200   C 13.54414900 5.62738200 -7.16465100   H 13.46984400 6.17212800 -8.10954400   H 14.01092000 4.66256100 -7.37355400   H 14.14975000 6.19570300 -6.46131500   O 9.33445700 5.62248000 -8.95728500   C 10.16657000 6.57888000 -9.44478200   O 10.75615300 7.36053500 -8.73482700   C 10.22708000 6.49971500 -10.93515500   H 9.22288500 6.6089800 -11.34848400   H 10.59805300 5.1229200 -11.22106200   H 10.87950400 7.27984000 -11.32289100   C 6.76291500 6.14804800 -7.91094700   H 6.93468300 6.15253400 -8.98500300   O 7.46466900 7.4502760 -7.37189600   C 7.66967500	0	11.44661400	4.59495900	-7.39763900
O 11.72464200 5.92859500 -5.60042200   C 13.54414900 5.62738200 -7.16465100   H 13.46984400 6.17212800 -8.10954400   H 14.01092000 4.66256100 -7.37355400   H 14.14975000 6.19570300 -6.46131500   O 9.33445700 5.62248000 -8.95728500   C 10.16657000 6.5788800 -9.44478200   O 10.75615300 7.36053500 -8.73482700   C 10.22708000 6.49971500 -10.93515500   H 9.22288500 6.60898900 -11.34848400   H 10.59950400 7.27984000 -13.2289100   C 6.76291500 6.14804800 -7.91094700   H 6.93468300 6.15253400 -8.9850300   O 7.06406900 7.45025700 -7.37189600   C 7.40740600 8.45228200 -8.22759700   C 7.66967500 9.71713200 -7.47070700   H 8.49398100 <t9< td=""><td>С</td><td>12.16840600</td><td>5.42885900</td><td>-6.60895700</td></t9<>	С	12.16840600	5.42885900	-6.60895700
C 13.54414900 5.62738200 -7.16465100   H 13.46984400 6.17212800 -8.10954400   H 14.01092000 4.66256100 -7.37355400   H 14.14975000 6.19570300 -6.46131500   O 9.33445700 5.62248000 -8.95728500   C 10.16657000 6.57888000 -9.44478200   O 10.75615300 7.36053500 -8.73482700   C 10.22708000 6.49971500 -10.93515500   H 9.22288500 6.60898900 -11.3289100   C 10.87950400 7.27984000 -11.32289100   C 6.76291500 6.14804800 -7.91094700   H 6.93468300 6.15253400 -8.98500300   C 7.40740600 8.45228200 -8.22759700   O 7.48838300 8.30650700 -9.42265200   C 7.66967500 9.71713200 -7.4070700   H 8.49398100 9.55837060 -6.5028200   C 5.31709100	0	11.72464200	5.92859500	-5.60042200
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O 9.33445700 5.62248000 -8.95728500   C 10.16657000 6.5788800 -9.44478200   O 10.75615300 7.36053500 -8.73482700   C 10.22708000 6.49971500 -10.93515500   H 9.22288500 6.60898900 -11.34848400   H 10.59805300 5.51229200 -11.22106200   H 10.87950400 7.27984000 -11.32289100   C 6.76291500 6.14804800 -7.91094700   H 6.93468300 6.15253400 -8.98500300   O 7.06406900 7.45025700 -7.37189600   C 7.40740600 8.45228200 -8.22759700   O 7.48838300 8.30650700 -9.42265200   C 7.66967500 9.71713200 -7.47007700   H 8.49398100 9.55837000 -6.7007200   H 7.92258600 10.51690800 -8.16311200   C 5.31709100 5.81839900 -7.61047600   H 5.09232100	Н	14.14975000	6.19570300	-6.46131500
C 10.16657000 6.5788800 -9.44478200   O 10.75615300 7.36053500 -8.73482700   C 10.22708000 6.49971500 -10.93515500   H 9.22288500 6.60898900 -11.34848400   H 10.59805300 5.51229200 -11.22106200   H 10.87950400 7.27984000 -11.32289100   C 6.76291500 6.14804800 -7.91094700   H 6.93468300 6.15253400 -8.98500300   O 7.06406900 7.45025700 -7.37189600   C 7.40740600 8.45228200 -8.22759700   O 7.46469500 9.71713200 -7.47007700   H 8.49398100 9.55837000 -6.7807202   H 7.92258600 10.51690800 -8.16311200   C 5.31709100 5.81839900 -7.61047600   H 5.09232100 5.95374600 -6.55028200   O 4.52615200 6.73130400 -8.39620800   C 3.19577400	0	9.33445700	5.62248000	-8.95728500
O 10.75615300 7.36053500 -8.73482700   C 10.22708000 6.49971500 -10.93515500   H 9.22288500 6.60898900 -11.34848400   H 10.59805300 5.51229200 -11.22106200   H 10.87950400 7.27984000 -11.32289100   C 6.76291500 6.14804800 -7.91094700   H 6.93468300 6.15253400 -8.98500300   O 7.06406900 7.45025700 -7.37189600   C 7.40740600 8.45228200 -8.22759700   O 7.46838300 8.30650700 -9.42265200   C 7.66967500 9.71713200 -7.47007700   H 8.49398100 9.55837000 -6.78072020   H 7.92258600 10.51690800 -8.16311200   C 5.31709100 5.81839900 -7.61047600   H 5.09232100 5.95374600 -6.55028200   O 4.52615200 6.73130400 -8.39620800   C 3.19577400 <td< td=""><td>С</td><td>10.16657000</td><td>6.57888000</td><td>-9.44478200</td></td<>	С	10.16657000	6.57888000	-9.44478200
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C6.762915006.14804800-7.91094700H6.934683006.15253400-8.98500300O7.064069007.45025700-7.37189600C7.407406008.45228200-8.22759700O7.488383008.30650700-9.42265200C7.669675009.71713200-7.47007700H8.493981009.55837000-6.77007200H6.786337009.99046900-6.88796600H7.9225860010.51690800-8.16311200C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H6.392411001.45548100-3.32848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H6.392411001.45548100-3.32267100H6.392411001.45548100-3.32267100H6.392411001.45548100-3.32267100H6.392411001.45548100-3.08087800H6.39241100<	Н	10.87950400	7.27984000	-11.32289100
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O 7.06406900 7.45025700 -7.37189600   C 7.40740600 8.45228200 -8.22759700   O 7.48838300 8.30650700 -9.42265200   C 7.66967500 9.71713200 -7.47007700   H 8.49398100 9.55837000 -6.77007200   H 6.78633700 9.99046900 -6.88796600   H 7.92258600 10.51690800 -8.16311200   C 5.31709100 5.81839900 -7.61047600   H 5.09178700 4.79229900 -7.89716000   H 5.09232100 5.95374600 -6.55028200   O 4.52615200 6.73130400 -8.39620800   C 3.19577400 6.51243000 -9.32031600   H 2.79632900 7.30694500 -10.35703700   H 2.81323700 8.51678400 -9.07214100   H 7.59343800 5.19732800 -6.14643500   C 7.8593100 1.69115000 -3.33848200   H 6.39241100 1.45548	Н	6.93468300	6.15253400	-8.98500300
C7.407406008.45228200-8.22759700O7.488383008.30650700-9.42265200C7.669675009.71713200-7.47007700H8.493981009.55837000-6.77007200H6.786337009.99046900-6.88796600H7.9225860010.51690800-8.16311200C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H6.35224002.75373400-10.68163800H6.015014002.88399700-9.97458400	0	7.06406900	7.45025700	-7.37189600
O7.488383008.30650700-9.42265200C7.669675009.71713200-7.47007700H8.493981009.55837000-6.77007200H6.786337009.99046900-6.88796600H7.9225860010.51690800-8.16311200C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H6.392411001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H6.392411001.45548100-3.2267100H8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	7.40740600	8.45228200	-8.22759700
C7.669675009.71713200-7.47007700H8.493981009.55837000-6.77007200H6.786337009.99046900-6.88796600H7.9225860010.51690800-8.16311200C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48729600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Ο	7.48838300	8.30650700	-9.42265200
H8.493981009.55837000-6.77007200H6.786337009.99046900-6.88796600H7.9225860010.51690800-8.16311200C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H6.392411001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	7.66967500	9.71713200	-7.47007700
H6.786337009.99046900-6.88796600H7.9225860010.51690800-8.16311200C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	8.49398100	9.55837000	-6.77007200
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C5.317091005.81839900-7.61047600H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	7.92258600	10.51690800	-8.16311200
H5.091787004.79229900-7.89716000H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	5.31709100	5.81839900	-7.61047600
H5.092321005.95374600-6.55028200O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	5.09178700	4.79229900	-7.89716000
O4.526152006.73130400-8.39620800C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	5.09232100	5.95374600	-6.55028200
C3.195774006.51243000-8.42710500O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Ο	4.52615200	6.73130400	-8.39620800
O2.663302005.61514000-7.81134100C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	3.19577400	6.51243000	-8.42710500
C2.505412007.49905000-9.32031600H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Ο	2.66330200	5.61514000	-7.81134100
H2.796329007.30694500-10.35703700H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	2.50541200	7.49905000	-9.32031600
H2.813237008.51678400-9.07214100H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	2.79632900	7.30694500	-10.35703700
H1.426407007.39702800-9.22107600H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	2.81323700	8.51678400	-9.07214100
H7.593438005.19732800-6.14643500C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	1.42640700	7.39702800	-9.22107600
C7.825704002.13061100-4.66150300C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	7.59343800	5.19732800	-6.14643500
C7.459031001.69115000-3.33848200H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	7.82570400	2.13061100	-4.66150300
H6.392411001.45548100-3.32267100H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	С	7.45903100	1.69115000	-3.33848200
H8.037451000.80109000-3.08087800H7.670317002.48789600-2.62179400N8.125231002.48922400-5.71798600C6.835224002.75373400-10.68163800H6.015014002.88399700-9.97458400	Н	6.39241100	1.45548100	-3.32267100
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C 3.08116500 -0.90187400 1.46910500   O 3.68725300 -1.77874000 0.90699200   C 2.89318200 -0.74454000 2.94200200   H 3.58981900 0.02033900 3.29929400   H 1.88022800 -0.41298900 3.17033400   H 3.11094500 -1.68647500 3.44156800   C 0.13225400 -0.51553200 -0.67681300   H 0.03721800 -0.34970600 0.39320700   C -1.20816600 -0.31479900 -1.36634600   H -1.10783400 -0.5672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.5296300 -2.73426800 0.13184700   O 0.31353600 -2.3901990 1.26395400   C 0.85634900 4.04076000 -0.21754000   C 0.85634900 4.04	Ο	4.81913900	1.13313100	-0.40767000
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C 2.89318200 -0.74454000 2.94200200   H 3.58981900 0.02033900 3.29929400   H 1.88022800 -0.41298900 3.17033400   H 3.11094500 -1.68647500 3.44156800   C 0.13225400 -0.51553200 -0.67681300   H 0.03721800 -0.34970600 0.39320700   C -1.20816600 -0.31479900 -1.36634600   H -1.50731000 0.73165000 -1.26254200   H -1.10783400 -0.53672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 <td< td=""><td>Ο</td><td>3.68725300</td><td>-1.77874000</td><td>0.90699200</td></td<>	Ο	3.68725300	-1.77874000	0.90699200
H 3.58981900 0.02033900 3.29929400   H 1.88022800 -0.41298900 3.17033400   H 3.11094500 -1.68647500 3.44156800   C 0.13225400 -0.51553200 -0.67681300   H 0.03721800 -0.34970600 0.39320700   C -1.20816600 -0.31479900 -1.36634600   H -1.50731000 0.73165000 -1.26254200   H -1.10783400 -0.53672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 <td< td=""><td>С</td><td>2.89318200</td><td>-0.74454000</td><td>2.94200200</td></td<>	С	2.89318200	-0.74454000	2.94200200
H 1.88022800 -0.41298900 3.17033400   H 3.11094500 -1.68647500 3.44156800   C 0.13225400 -0.51553200 -0.67681300   H 0.03721800 -0.34970600 0.39320700   C -1.20816600 -0.31479900 -1.36634600   H -1.50731000 0.73165000 -1.26254200   H -1.10783400 -0.53672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.22802800 -0.24643000   C 0.885634900 4.04076000 -0.21754000   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.0710700 -0.30664600   O -0.37882400 <	Н	3.58981900	0.02033900	3.29929400
H 3.11094500 -1.68647500 3.44156800   C 0.13225400 -0.51553200 -0.67681300   H 0.03721800 -0.34970600 0.39320700   C -1.20816600 -0.31479900 -1.36634600   H -1.50731000 0.73165000 -1.26254200   H -1.10783400 -0.53672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.39019900 1.26395400   O 0.31353600 -2.39019900 1.26395400   O 0.31353600 -2.39019900 1.26395400   C 0.84541400 -4.15436700 -0.3384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.0710700 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 <t5< td=""><td>Н</td><td>1.88022800</td><td>-0.41298900</td><td>3.17033400</td></t5<>	Н	1.88022800	-0.41298900	3.17033400
C 0.13225400 -0.51553200 -0.67681300   H 0.03721800 -0.34970600 0.39320700   C -1.20816600 -0.31479900 -1.36634600   H -1.50731000 0.73165000 -1.26254200   H -1.10783400 -0.53672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.5880300   H -1.21703300 <t< td=""><td>Н</td><td>3.11094500</td><td>-1.68647500</td><td>3.44156800</td></t<>	Н	3.11094500	-1.68647500	3.44156800
H0.03721800-0.349706000.39320700C-1.20816600-0.31479900-1.36634600H-1.507310000.73165000-1.26254200H-1.10783400-0.53672300-2.43382900C5.698643000.27481200-1.00029500O0.57664800-1.85842700-0.91234300O-2.14500100-1.20343700-0.79148600C0.55296300-2.734268000.13184700O0.31353600-2.390199001.26395400O5.42012200-0.32756700-2.00856800C7.020510000.22802800-0.24643000C0.856349004.04076000-0.21754000O1.474339005.07107000-0.30664600O-0.378824003.851141000.16878700C-1.141471005.045894000.5880300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-3.295282000.205735001.48121300C-2.13781300-0.05557002.24855100C-2.13781300-0.05557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-2.47782001.313798001.39585000C-2.487959	С	0.13225400	-0.51553200	-0.67681300
C -1.20816600 -0.31479900 -1.36634600   H -1.50731000 0.73165000 -1.26254200   H -1.10783400 -0.53672300 -2.43382900   C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.3384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -3.0502500 <t< td=""><td>Н</td><td>0.03721800</td><td>-0.34970600</td><td>0.39320700</td></t<>	Н	0.03721800	-0.34970600	0.39320700
H-1.507310000.73165000-1.26254200H-1.10783400-0.53672300-2.43382900C5.698643000.27481200-1.00029500O0.57664800-1.85842700-0.91234300O-2.14500100-1.20343700-0.79148600C0.55296300-2.734268000.13184700O0.31353600-2.390199001.26395400O5.42012200-0.32756700-2.00856800C7.020510000.22802800-0.24643000C0.84541400-4.15436700-0.33384500C0.856349004.04076000-0.21754000O1.474339005.07107000-0.30664600O-0.378824003.851141000.16878700C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.05028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.05557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-2.13	С	-1.20816600	-0.31479900	-1.36634600
H-1.10783400-0.53672300-2.43382900C5.698643000.27481200-1.00029500O0.57664800-1.85842700-0.91234300O-2.14500100-1.20343700-0.79148600C0.55296300-2.734268000.13184700O0.31353600-2.390199001.26395400O5.42012200-0.32756700-2.00856800C7.020510000.22802800-0.24643000C0.84541400-4.15436700-0.33384500C0.856349004.04076000-0.21754000O1.474339005.07107000-0.30664600O-0.378824003.851141000.16878700C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.05028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-2.13781300-0.05557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000	Н	-1.50731000	0.73165000	-1.26254200
C 5.69864300 0.27481200 -1.00029500   O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -1.21703300 5.43477400 1.43171000   H -3.05035500 5.43477400 1.43171000   H -3.05002800 4.08339300 0.28850200   H -2.36818800 3	Н	-1.10783400	-0.53672300	-2.43382900
O 0.57664800 -1.85842700 -0.91234300   O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -3.05035500 5.43477400 1.43171000   H -3.05035500 5.43477400 1.43171000   H -3.0502800 4.08339300 0.28850200   C -2.48134700 -2.46398900 0.31848700   Si -3.61442800	С	5.69864300	0.27481200	-1.00029500
O -2.14500100 -1.20343700 -0.79148600   C 0.55296300 -2.73426800 0.13184700   O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -0.55947400 5.54268600 1.36496400   C -2.48134700 4.56886200 1.08323800   H -3.05002800 4.08339300 0.28850200   H -2.36818800 3.87415600 1.91705900   C -4.40219400 -2.46398900 0.31848700   Si -3.61442800	Ο	0.57664800	-1.85842700	-0.91234300
C0.55296300-2.734268000.13184700O0.31353600-2.390199001.26395400O5.42012200-0.32756700-2.00856800C7.020510000.22802800-0.24643000C0.84541400-4.15436700-0.33384500C0.856349004.04076000-0.21754000O1.474339005.07107000-0.30664600O-0.378824003.851141000.16878700C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Ο	-2.14500100	-1.20343700	-0.79148600
O 0.31353600 -2.39019900 1.26395400   O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -0.55947400 5.54268600 1.36496400   C -2.48134700 4.56886200 1.08323800   H -3.05035500 5.43477400 1.43171000   H -3.0502800 4.08339300 0.28850200   H -2.36818800 3.87415600 1.91705900   C -4.40219400 -2.46398900 0.31848700   Si -3.61442800 -0.78527900 -0.08882600   C -2.13781300 -	С	0.55296300	-2.73426800	0.13184700
O 5.42012200 -0.32756700 -2.00856800   C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -0.55947400 5.54268600 1.36496400   C -2.48134700 4.56886200 1.08323800   H -3.05002800 4.08339300 0.28850200   H -3.05002800 4.08339300 0.28850200   C -4.40219400 -2.46398900 0.31848700   Si -3.61442800 -0.78527900 -0.08882600   C -2.13781300 -0.00555700 2.24855100   C -2.13781300 <th< td=""><td>Ο</td><td>0.31353600</td><td>-2.39019900</td><td>1.26395400</td></th<>	Ο	0.31353600	-2.39019900	1.26395400
C 7.02051000 0.22802800 -0.24643000   C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -0.55947400 5.54268600 1.36496400   C -2.48134700 4.56886200 1.08323800   H -3.05035500 5.43477400 1.43171000   H -3.05002800 4.08339300 0.28850200   H -2.36818800 3.87415600 1.91705900   C -4.40219400 -2.46398900 0.31848700   Si -3.61442800 -0.78527900 -0.08882600   C -2.13781300 -0.00555700 2.24855100   C -2.13781300 -0.0555700 2.24855100   C -1.39724100	Ο	5.42012200	-0.32756700	-2.00856800
C 0.84541400 -4.15436700 -0.33384500   C 0.85634900 4.04076000 -0.21754000   O 1.47433900 5.07107000 -0.30664600   O -0.37882400 3.85114100 0.16878700   C -1.14147100 5.04589400 0.58800300   H -1.21703300 5.69941100 -0.28170900   H -0.55947400 5.54268600 1.36496400   C -2.48134700 4.56886200 1.08323800   H -3.05035500 5.43477400 1.43171000   H -3.0502800 4.08339300 0.28850200   H -3.05002800 4.08339300 0.28850200   H -3.0502800 4.08339300 0.28850200   C -4.40219400 -2.46398900 0.31848700   Si -3.61442800 -0.78527900 -0.08882600   C -2.13781300 -0.00555700 2.24855100   C -4.24279800 1.12362900 1.96272600   C -1.39724100 -0	С	7.02051000	0.22802800	-0.24643000
C0.856349004.04076000-0.21754000O1.474339005.07107000-0.30664600O-0.378824003.851141000.16878700C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-2.13781300-0.005557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798003.90056500	С	0.84541400	-4.15436700	-0.33384500
O1.474339005.07107000-0.30664600O-0.378824003.851141000.16878700C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-2.13781300-0.005557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	С	0.85634900	4.04076000	-0.21754000
O-0.378824003.851141000.16878700C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-2.13781300-0.005557002.24855100C-2.13781300-0.05557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Ο	1.47433900	5.07107000	-0.30664600
C-1.141471005.045894000.58800300H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Ο	-0.37882400	3.85114100	0.16878700
H-1.217033005.69941100-0.28170900H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	С	-1.14147100	5.04589400	0.58800300
H-0.559474005.542686001.36496400C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Н	-1.21703300	5.69941100	-0.28170900
C-2.481347004.568862001.08323800H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Н	-0.55947400	5.54268600	1.36496400
H-3.050355005.434774001.43171000H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	С	-2.48134700	4.56886200	1.08323800
H-3.050028004.083393000.28850200H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Н	-3.05035500	5.43477400	1.43171000
H-2.368188003.874156001.91705900C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Н	-3.05002800	4.08339300	0.28850200
C-4.40219400-2.463989000.31848700Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Н	-2.36818800	3.87415600	1.91705900
Si-3.61442800-0.78527900-0.08882600C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	С	-4.40219400	-2.46398900	0.31848700
C-3.295282000.205735001.48121300C-2.13781300-0.005557002.24855100C-4.242798001.123629001.96272600C-1.926511000.685450003.44113100H-1.39724100-0.727020001.92403300C-4.042476001.808147003.16060100H-5.147782001.313798001.39585000C-2.879959001.593904003.90056500	Si	-3.61442800	-0.78527900	-0.08882600
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H6.89429000-0.42654000-1.52112200C4.57220800-2.97462900-1.03349300H4.84748700-3.23154400-0.00731600H3.49283300-3.10456600-1.14041500H5.06491500-3.69620700-1.69720700C4.445441001.47248500-0.93271800C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.02280600-0.824932004.27504900H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.8389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050βC <td>Н</td> <td>7.04575800</td> <td>-2.15473700</td> <td>-1.84933000</td>	Н	7.04575800	-2.15473700	-1.84933000
C4.57220800-2.97462900-1.03349300H4.84748700-3.23154400-0.00731600H3.49283300-3.10456600-1.14041500H5.06491500-3.69620700-1.69720700C4.445441001.47248500-0.93271800C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H2.859182003.85202900-1.19437000H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C5.260802000.485857002.25809500C5.02280600-0.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.86627001.043208004.16503900H5.21708700-0.967578005.33233900C1.52045100-2.61887000-0.11653100C1.52045100-2.618870000.017199900C3.39689900<	Н	6.89429000	-0.42654000	-1.52112200
H4.84748700-3.23154400-0.00731600H3.49283300-3.10456600-1.14041500H5.06491500-3.69620700-1.69720700C4.445411001.47248500-0.93271800C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C5.260802000.485857002.25809500C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.86627001.043208004.16503900H5.21708700-0.967578005.33233900C1.52045100-2.61887000-0.11653100C2.378982000.145315000.17199900C2.378982000.145315000.17199900C2.378982000.	С	4.57220800	-2.97462900	-1.03349300
H3.49283300-3.10456600-1.14041500H5.06491500-3.696207001.69720700C4.445441001.47248500-0.93271800C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.02280600-0.824932004.27504900H5.640444001.377923001.77494300C5.02280600-0.824932004.16503900H5.21708700-0.967578005.33233900H5.21708700-0.967578005.33233900H5.2045100-2.618870000.011653100C1.01649800-0.340533000.64119200C2.378982000.145315000.171999900C2.37898200 <td< td=""><td>Н</td><td>4.84748700</td><td>-3.23154400</td><td>-0.00731600</td></td<>	Н	4.84748700	-3.23154400	-0.00731600
H5.06491500-3.69620700-1.69720700C4.445441001.47248500-0.93271800C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.20176200C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.02280600-0.824932004.27504900H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900C1.52045100-2.618870000.64119200C2.378982000.145315000.17199900C2.378982000.994652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000	Н	3.49283300	-3.10456600	-1.14041500
C4.445441001.47248500-0.93271800C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.8389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050βC1.52045100-2.61887000-0.11653100C2.378982000.145315000.71719900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H	Н	5.06491500	-3.69620700	-1.69720700
C5.690485002.10910300-0.79212100C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C5.260802000.485857002.25809500C5.260802000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.8389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β11C1.52045100-2.61887000-0.11653100C2.37898200-0.984652000.29435100C2.37898200-0.984652000.29435100C2.37898200-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200 <td>С</td> <td>4.44544100</td> <td>1.47248500</td> <td>-0.93271800</td>	С	4.44544100	1.47248500	-0.93271800
C3.437206002.15671500-1.63224700C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.65696400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900506C1.1C1.52045100-2.61887000C1.52045100-2.618870000.11653100C1.52045100-2.618870000.17199900C2.378982000.145315000.17199900C2.95136100-2.20017500-0.50843500H2.682308000.997296000.7	С	5.69048500	2.10910300	-0.79212100
C5.914623003.38201600-1.31501500H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900S0β11C1.520451100-2.61887000-0.11653100C2.378982000.145315000.171199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-5.05843500H2.682308000.977296000.77474200	С	3.43720600	2.15671500	-1.63224700
H6.504030001.60885500-0.27929300C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900 <b>50p</b> C1.52045100-2.61887000-0.11653100C2.378982000.145315000.71199900C2.378982000.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	5.91462300	3.38201600	-1.31501500
C3.655062003.43100400-2.15502200H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900 <b>50p</b> I1C1.52045100-2.61887000-0.11653100C2.378982000.145315000.17199900C2.378982000.145315000.17199900C2.37898200-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	6.50403000	1.60885500	-0.27929300
H2.471093001.68853400-1.78270600C4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050βI1IC1.52045100-2.61887000-0.11653100C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	3.65506200	3.43100400	-2.15502200
С4.894803004.04847500-1.99436200H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900S0βI1IC1.52045100-2.61887000-0.11653100C2.378982000.145315000.64119200C2.37898200-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	2.47109300	1.68853400	-1.78270600
H6.884559003.85202900-1.19437000H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β111C1.52045100-2.61887000-0.11653100C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	4.89480300	4.04847500	-1.99436200
H2.859182003.93842900-2.68933600H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β11IC1.52045100-2.61887000-0.11653100C2.378982000.145315000.64119200C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	6.88455900	3.85202900	-1.19437000
H5.067369005.03906400-2.40041500C4.52364200-0.454440001.52251700C4.03066600-1.580404002.20716200C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β111C1.52045100-2.61887000-0.11653100C2.378982000.145315000.64119200C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	2.85918200	3.93842900	-2.68933600
С4.52364200-0.454440001.52251700С4.03066600-1.580404002.20716200С5.260802000.485857002.25809500С4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.33233900 <b>50β</b> I1IC1.52045100-2.61887000-0.11653100C2.378982000.145315000.64119200C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	5.06736900	5.03906400	-2.40041500
С4.03066600-1.580404002.20716200С5.260802000.485857002.25809500С4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β111C1.52045100-2.61887000-0.11653100C2.378982000.145315000.64119200C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	4.52364200	-0.45444000	1.52251700
C5.260802000.485857002.25809500C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β1 11C1.52045100-2.61887000-0.11653100C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	4.03066600	-1.58040400	2.20716200
C4.27598800-1.766392003.56596400H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β1 11C1.52045100-2.61887000-0.11653100C2.378982000.145315000.64119200C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	5.26080200	0.48585700	2.25809500
H3.43816100-2.318131001.67849200C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β1C1.52045100-2.61887000C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	4.27598800	-1.76639200	3.56596400
C5.512480000.302971003.61843800H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β11-C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	3.43816100	-2.31813100	1.67849200
H5.640444001.377923001.77494300C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β111C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	5.51248000	0.30297100	3.61843800
C5.02280600-0.824932004.27504900H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β1 1-C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	5.64044400	1.37792300	1.77494300
H3.88389200-2.642512004.07103100H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β	С	5.02280600	-0.82493200	4.27504900
H6.086627001.043208004.16503900H5.21708700-0.967578005.3323390050β1 1C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	3.88389200	-2.64251200	4.07103100
H5.21708700-0.967578005.3323390050β1 1C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	Н	6.08662700	1.04320800	4.16503900
50β   1 1   C 1.52045100 -2.61887000 -0.11653100   C 1.01649800 -0.34053300 0.64119200   C 2.37898200 0.14531500 0.17199900   C 3.39689900 -0.98465200 0.29435100   C 2.95136100 -2.20017500 -0.50843500   H 2.68230800 0.99729600 0.77474200	Н	5.21708700	-0.96757800	5.33233900
11C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	50β			
C1.52045100-2.61887000-0.11653100C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	11			
C1.01649800-0.340533000.64119200C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	1.52045100	-2.61887000	-0.11653100
C2.378982000.145315000.17199900C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	1.01649800	-0.34053300	0.64119200
C3.39689900-0.984652000.29435100C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	2.37898200	0.14531500	0.17199900
C2.95136100-2.20017500-0.50843500H2.682308000.997296000.77474200	С	3.39689900	-0.98465200	0.29435100
Н 2.68230800 0.99729600 0.77474200	С	2.95136100	-2.20017500	-0.50843500
	Н	2.68230800	0.99729600	0.77474200

H3.53135100-1.221178001.34855200H2.94554400-1.94309900-1.56821400H3.62898300-3.04033000-0.35432300O0.61015400-1.55832600-0.03207500C1.49895100-3.521312001.15582000O1.72210500-2.773844002.21844200O1.31982500-4.711668001.12766800C1.76507800-3.442102003.52921600H2.56376200-4.183717003.49355600C2.01476200-3.37276004.56299100C2.01476200-2.372976004.56299100H2.05850100-2.841699005.54952900H2.05850100-2.841699005.54952900H2.06437000-1.863937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.46994900-1.63284600C6.790964000.47125300-1.21015200C2.7849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.40714800H1.736573001.60334900-3.2076200C2.02546003.00258900-3.27076200C0.018071002.96492200-1.08026200C0.0255576001.9055311000.90048200C0.01807100				
H2.94554400-1.94309900-1.56821400H3.62898300-3.04033000-0.35432300O0.61015400-1.55832600-0.03207500C1.49895100-3.521312001.15582000O1.72210500-2.773844002.21844200O1.31982500-4.711668001.12766800C1.76507800-3.442102003.52921600H2.56376200-4.183717003.49355600H0.80954000-3.947104003.67266300C2.01476200-2.372976004.56299100H2.96437000-1.863937004.38267200H2.096437000-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284591001.5397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.25091200C2.02546003.00258900-3.27076200C0.018071002.96492200-1.08026200C0.02546003.0025800-3.27076200G0.202546003.002238000.11363600O0.235576001.905531000.90249200C0.404358004.276940000.93719200C0.404358004.	Н	3.53135100	-1.22117800	1.34855200
H3.62898300-3.04033000-0.35432300O0.61015400-1.55832600-0.03207500C1.49895100-3.521312001.15582000O1.72210500-2.773844002.21844200O1.31982500-4.711668001.12766800C1.76507800-3.442102003.52921600H2.6376200-4.183717003.49355600H0.80954000-3.947104003.67266300C2.01476200-2.372976004.56299100H2.05850100-2.841699005.54952900H2.0963700-1.636937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.5049600O5.208626000.469949001.63284600O2.284504000.53974600-1.21015200C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.5692800H2.854163003.00258900-3.27076200C0.013677000.74871700-0.75701200O0.235576001.905331000.90048200C0.202546003.09228000.11363600G0.22645000.039238000.11363600O0.235576001.905331000.90269700H-0.122857000.43438000.60664800H-1.398723000.23443	Н	2.94554400	-1.94309900	-1.56821400
O 0.61015400 -1.55832600 -0.03207500   C 1.49895100 -3.52131200 1.15582000   O 1.72210500 -2.77384400 2.21844200   O 1.31982500 -4.71166800 1.12766800   C 1.76507800 -3.44210200 3.52921600   H 2.6376200 -4.18371700 3.49355600   H 0.80954000 -3.94710400 3.67266300   C 2.01476200 -2.37297600 4.56299100   H 2.05850100 -2.84169900 5.54952900   H 2.06437000 -1.86393700 4.38267200   O 4.65712400 -0.59113400 -0.27271500   C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.70940400 1.94715100 3.404714800   H 1.73657300 1.6093490	Н	3.62898300	-3.04033000	-0.35432300
C 1.49895100 -3.52131200 1.15582000   O 1.72210500 -2.77384400 2.21844200   O 1.31982500 -4.71166800 1.12766800   C 1.76507800 -3.44210200 3.52921600   H 2.56376200 -4.18371700 3.49355600   H 0.80954000 -3.94710400 3.67266300   C 2.01476200 -2.37297600 4.56299100   H 2.05850100 -2.84169900 5.54952900   H 2.96437000 -1.86393700 4.38267200   H 2.0937200 -1.63504200 4.56942800   O 4.65712400 -0.59113400 -0.27271500   C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.70940400 1.94715100 3.40714800   H 1.73657300 1.60934900<	0	0.61015400	-1.55832600	-0.03207500
O 1.72210500 -2.77384400 2.21844200   O 1.31982500 -4.71166800 1.12766800   C 1.76507800 -3.44210200 3.52921600   H 2.56376200 -4.18371700 3.49355600   H 0.80954000 -3.94710400 3.67266300   C 2.01476200 -2.37297600 4.56299100   H 2.05850100 -2.84169900 5.54952900   H 2.09437000 -1.86393700 4.38267200   H 1.20937200 -1.63504200 4.56942800   O 4.65712400 -0.59113400 -0.27271500   C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.84971200 1.71911800 -1.57495900   O 3.40653600 2.45397200 -0.79352900   C 2.70940400 1.9471510	С	1.49895100	-3.52131200	1.15582000
O 1.31982500 -4.71166800 1.12766800   C 1.76507800 -3.44210200 3.52921600   H 2.56376200 -4.18371700 3.49355600   H 0.80954000 -3.94710400 3.67266300   C 2.01476200 -2.37297600 4.56299100   H 2.05850100 -2.84169900 5.54952900   H 2.96437000 -1.63504200 4.56942800   O 4.65712400 -0.59113400 -0.27271500   C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.84971200 1.71911800 -1.57495900   O 3.40653600 2.45397200 -0.79352900   C 2.70940400 1.94715100 -3.40397500   H 1.73657300 1.60934900 -3.2076200   C -0.11363100 0.6349640	0	1.72210500	-2.77384400	2.21844200
C 1.76507800 -3.44210200 3.52921600   H 2.56376200 -4.18371700 3.49355600   H 0.80954000 -3.94710400 3.67266300   C 2.01476200 -2.37297600 4.56299100   H 2.05850100 -2.84169900 5.54952900   H 2.09437000 -1.86393700 4.38267200   H 1.20937200 -1.63504200 4.56942800   O 4.65712400 -0.59113400 -0.27271500   C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.70940400 1.94715100 -3.04714800   H 1.73657300 1.60934900 -3.40397500   H 2.85416300 3.00258900 -3.27076200   C -0.11363100 0.63496400 0.32051400   H -0.19285760 1.905531	Ο	1.31982500	-4.71166800	1.12766800
H2.56376200-4.183717003.49355600H0.80954000-3.947104003.67266300C2.01476200-2.372976004.56299100H2.05850100-2.841699005.54952900H2.96437000-1.863937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.8026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.06394600-3.07761900H-1.07184600	С	1.76507800	-3.44210200	3.52921600
H0.80954000-3.947104003.67266300C2.01476200-2.372976004.56299100H2.05850100-2.841699005.54952900H2.96437000-1.863937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.8026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H-1.07184600-0.526057001.71557500C-0.04949000	Н	2.56376200	-4.18371700	3.49355600
C2.01476200-2.372976004.56299100H2.05850100-2.841699005.54952900H2.96437000-1.863937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.26092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.23556001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.06394600-3.307761900H1.07184600-0.526057001.71557500C0.052325300-4.05226700-2.02578000C0.04949000-4.83256400-3.07761900H0.46260200	Н	0.80954000	-3.94710400	3.67266300
H2.05850100-2.841699005.54952900H2.96437000-1.863937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.26092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.018071002.96492200-1.08026200C0.1018071002.96492200-1.08026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.06394600-4.3348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.4949000-4.83256400-3.07761900H0.80811400	С	2.01476200	-2.37297600	4.56299100
H2.96437000-1.863937004.38267200H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.26092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C0.52325300-4.05226700-2.02578000C0.52325300-4.05226700-2.02578000H1.07184600-5.79836400-3.11235700H0.8191400-4.30363300-4.02480600N0.98657600	Н	2.05850100	-2.84169900	5.54952900
H1.20937200-1.635042004.56942800O4.65712400-0.59113400-0.27271500C5.488575000.153116000.50049600O5.208626000.469949001.63284600C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.26092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.018071002.96492200-1.08026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.8191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	2.96437000	-1.86393700	4.38267200
O 4.65712400 -0.59113400 -0.27271500   C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.84971200 1.71911800 -1.57495900   O 3.40653600 2.45397200 -0.79352900   C 2.70940400 1.94715100 -3.04714800   H 1.73657300 1.60934900 -3.40397500   H 3.48203600 1.36630400 -3.26092800   H 2.85416300 3.00258900 -3.27076200   C -0.11363100 0.63496400 0.32051400   H -0.19285700 0.74871700 -0.75701200   O 0.23557600 1.90553100 0.90048200   C 0.20254600 3.00923800 0.11363600   O 0.1807100 2.96492200 -1.08026200   C -1.44356200 0.19215500	Н	1.20937200	-1.63504200	4.56942800
C 5.48857500 0.15311600 0.50049600   O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.84971200 1.71911800 -1.57495900   O 3.40653600 2.45397200 -0.79352900   C 2.70940400 1.94715100 -3.04714800   H 1.73657300 1.60934900 -3.40397500   H 3.48203600 1.36630400 -3.26092800   H 2.85416300 3.00258900 -3.27076200   C -0.11363100 0.63496400 0.32051400   H -0.19285700 0.74871700 -0.75701200   O 0.23557600 1.90553100 0.90048200   C 0.20254600 3.00923800 0.11363600   O 0.1807100 2.96492200 -1.08026200   C -1.44356200 0.19215500 0.90269700   H -1.62624000 -0.84338500	Ο	4.65712400	-0.59113400	-0.27271500
O 5.20862600 0.46994900 1.63284600   C 6.79096400 0.47125300 -0.22643800   O 2.28450400 0.53974600 -1.21015200   C 2.84971200 1.71911800 -1.57495900   O 3.40653600 2.45397200 -0.79352900   C 2.70940400 1.94715100 -3.04714800   H 1.73657300 1.60934900 -3.40397500   H 3.48203600 1.36630400 -3.56092800   H 2.85416300 3.00258900 -3.27076200   C -0.11363100 0.63496400 0.32051400   H -0.19285700 0.74871700 -0.75701200   O 0.20254600 3.00923800 0.11363600   O 0.01807100 2.96492200 -1.08026200   C 0.40435800 4.27694000 0.93719200   C 0.40435800 4.27694000 0.43348800   H -1.62624000 -0.84338500 0.60664800   H 0.4526500 1.06394600<	С	5.48857500	0.15311600	0.50049600
C6.790964000.47125300-0.22643800O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.3063300-4.02480600N0.98657600-3.43554700-1.18292200	Ο	5.20862600	0.46994900	1.63284600
O2.284504000.53974600-1.21015200C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	6.79096400	0.47125300	-0.22643800
C2.849712001.71911800-1.57495900O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	0	2.28450400	0.53974600	-1.21015200
O3.406536002.45397200-0.79352900C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	2.84971200	1.71911800	-1.57495900
C2.709404001.94715100-3.04714800H1.736573001.60934900-3.40397500H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	0	3.40653600	2.45397200	-0.79352900
H1.736573001.60934900-3.40397500H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	2.70940400	1.94715100	-3.04714800
H3.482036001.36630400-3.56092800H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H-1.11230900-4.97678500-2.86750300H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	1.73657300	1.60934900	-3.40397500
H2.854163003.00258900-3.27076200C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	3.48203600	1.36630400	-3.56092800
C-0.113631000.634964000.32051400H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H-1.11230900-4.97678500-2.86750300H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	2.85416300	3.00258900	-3.27076200
H-0.192857000.74871700-0.75701200O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	-0.11363100	0.63496400	0.32051400
O0.235576001.905531000.90048200C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	-0.19285700	0.74871700	-0.75701200
C0.202546003.009238000.11363600O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	0	0.23557600	1.90553100	0.90048200
O0.018071002.96492200-1.08026200C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	0.20254600	3.00923800	0.11363600
C0.404358004.276940000.93719200C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	0	0.01807100	2.96492200	-1.08026200
C-1.443562000.192155000.90269700H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	0.40435800	4.27694000	0.93719200
H-1.62624000-0.843385000.60664800H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	С	-1.44356200	0.19215500	0.90269700
H-1.398723000.234437001.99625300O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H-1.11230900-4.97678500-2.86750300H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	-1.62624000	-0.84338500	0.60664800
O-2.458665001.063946000.43348800H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H-1.11230900-4.97678500-2.86750300H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	-1.39872300	0.23443700	1.99625300
H1.07184600-0.526057001.71557500C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H-1.11230900-4.97678500-2.86750300H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	0	-2.45866500	1.06394600	0.43348800
C0.52325300-4.05226700-2.02578000C-0.04949000-4.83256400-3.07761900H0.46260200-5.79836400-3.11235700H-1.11230900-4.97678500-2.86750300H0.08191400-4.30363300-4.02480600N0.98657600-3.43554700-1.18292200	Н	1.07184600	-0.52605700	1.71557500
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Н	-4.90084100	0.76372500	1.21533200

C -2.86335700 0.17538500 1.70025600   C -1.62632500 -0.31118200 0.96302000   H -1.09712300 1.68609500 0.37124500   C -0.05839700 0.37477100 -0.96311400   O -3.20045500 -0.79349600 2.70916600   H -2.63122800 1.12163700 2.19054200   H -0.78907900 -0.35473900 1.66627700   O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.30477700   GC 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.42392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.435131800 -1.08312700 5.67007400   H -4.58131800 <t< th=""><th></th><th></th><th></th><th></th></t<>				
C -1.62632500 -0.31118200 0.96302000   H -1.09712300 1.68609500 0.37124500   C -0.05839700 0.37477100 -0.96311400   O -3.20045500 -0.79349600 2.70916600   H -2.63122800 1.12163700 2.19054200   H -0.78907900 -0.35473900 1.66627700   O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.389765100   C 1.20498700 0.82878100 -0.232804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.9015500 -0.02526800   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.75655000   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -4.3519200 <	С	-2.86335700	0.17538500	1.70025600
H -1.09712300 1.68609500 0.37124500   C -0.05839700 0.37477100 -0.96311400   O -3.20045500 -0.79349600 2.70916600   H -2.63122800 1.12163700 2.19054200   H -0.78907900 -0.35473900 1.66627700   O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.89765100   C 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.29392300 0.29940800 0.71616000   O -4.1315600 -1.08312700 5.67007400   H -4.82356300 -2.17737800 4.28266700   H -4.35131800 -1.08312700 5.67007400   G -1.80628300 -3.12833500 -2.02969200   C -1.80628300 <t< td=""><td>С</td><td>-1.62632500</td><td>-0.31118200</td><td>0.96302000</td></t<>	С	-1.62632500	-0.31118200	0.96302000
C -0.05839700 0.37477100 -0.96311400   O -3.20045500 -0.79349600 2.70916600   H -2.63122800 1.12163700 2.19054200   H -0.78907900 -0.35473900 1.66627700   O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.89765100   C 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.29392300 0.29940800 0.71616000   O -4.13156600 -1.47185700 4.7565500   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -4.82356300 -2.17737800 4.28266700   C -1.80628300 -3.12833500 -2.02969200   C -1.8042300 <t< td=""><td>Н</td><td>-1.09712300</td><td>1.68609500</td><td>0.37124500</td></t<>	Н	-1.09712300	1.68609500	0.37124500
O -3.20045500 -0.79349600 2.70916600   H -2.63122800 1.12163700 2.19054200   H -0.78907900 -0.35473900 1.66627700   O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.89765100   C 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.23392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.7565500   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -4.82356300 -2.17737800 4.28266700   G -1.8003300 -1.58522600 0.40158100   Si -0.79130200 <t></t>	С	-0.05839700	0.37477100	-0.96311400
H -2.63122800 1.12163700 2.19054200   H -0.78907900 -0.35473900 1.66627700   O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.89765100   C 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.23392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.7565500   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -4.82356300 -2.17737800 4.28266700   H -3.21422200 -2.01162000 4.98640800   O -1.89039300 -1.58522600 0.40158100   Si -0.79130200 <t< td=""><td>0</td><td>-3.20045500</td><td>-0.79349600</td><td>2.70916600</td></t<>	0	-3.20045500	-0.79349600	2.70916600
H-0.78907900-0.354739001.66627700O0.03861800-0.99998200-1.30477700H-0.137680000.93850200-1.89765100C1.204987000.82878100-0.23804200C-3.85025200-0.346643003.80897600O2.327651000.57721300-1.06176700H1.122079001.90155000-0.02526800H1.293923000.299408000.71616000O-4.151192000.815040003.97280300C-4.13556600-1.471857004.75655000H-4.82356300-2.177378004.28266700H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C5.815333003.974938001.02537700H6.018013001.850359001.20892600C5.096249005.027640000.45851500H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410	Н	-2.63122800	1.12163700	2.19054200
O 0.03861800 -0.99998200 -1.30477700   H -0.13768000 0.93850200 -1.89765100   C 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.2526800   H 1.29392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.75655000   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -4.58131800 -1.08312700 5.67007400   H -3.21422200 -2.01162000 4.98640800   O -1.80628300 -3.12833500 -2.02969200   C 0.43014400 -3.38802100 0.30644100   Si 3.91961600 0.58675500 -0.53719200   C 5.45432300 <t></t>	Н	-0.78907900	-0.35473900	1.66627700
H-0.137680000.93850200-1.89765100C1.204987000.82878100-0.23804200C-3.85025200-0.346643003.80897600O2.327651000.57721300-1.06176700H1.122079001.90155000-0.02526800H1.293923000.299408000.71616000O-4.151192000.815040003.97280300C-4.13556600-1.471857004.75655000H-4.82356300-2.177378004.28266700H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C5.96249005.027640000.45851500H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900 </td <td>0</td> <td>0.03861800</td> <td>-0.99998200</td> <td>-1.30477700</td>	0	0.03861800	-0.99998200	-1.30477700
C 1.20498700 0.82878100 -0.23804200   C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.29392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.75655000   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -3.21422200 -2.01162000 4.98640800   O -1.89039300 -1.58522600 0.40158100   Si -0.79130200 -2.29599200 -0.65888600   C -1.80628300 -3.12833500 -2.03904400   C -1.80628300 -0.01504300 -2.03904400   C 4.91465000 -0.01504300 -2.03904400   C 4.91465000 -0.055978200 C   C 5.45432300 2.6	Н	-0.13768000	0.93850200	-1.89765100
C -3.85025200 -0.34664300 3.80897600   O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.29392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.75655000   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -3.21422200 -2.01162000 4.98640800   O -1.89039300 -1.58522600 0.40158100   Si -0.79130200 -2.29599200 -0.65888600   C -1.80628300 -3.12833500 -2.02969200   C 0.43014400 -3.38802100 0.30644100   Si 3.91961600 0.58675500 -0.53719200   C 4.91455030 -0.01504300 -2.03904400   C 4.37581100 2.36051900 0.7505600   C 5.81533300 <t< td=""><td>С</td><td>1.20498700</td><td>0.82878100</td><td>-0.23804200</td></t<>	С	1.20498700	0.82878100	-0.23804200
O 2.32765100 0.57721300 -1.06176700   H 1.12207900 1.90155000 -0.02526800   H 1.29392300 0.29940800 0.71616000   O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.75655000   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -3.21422200 -2.01162000 4.98640800   O -1.89039300 -1.58522600 0.40158100   Si -0.79130200 -2.29599200 -0.65888600   C -1.80628300 -3.12833500 -2.02969200   C 0.43014400 -3.38802100 0.30644100   Si 3.91961600 0.58675500 -0.53719200   C 4.91465000 -0.01504300 -2.03904400   C 5.45432300 2.65636900 0.75050600   C 5.81533300 3.97493800 1.02537700   H 6.01801300 <td< td=""><td>С</td><td>-3.85025200</td><td>-0.34664300</td><td>3.80897600</td></td<>	С	-3.85025200	-0.34664300	3.80897600
H1.122079001.90155000-0.02526800H1.293923000.299408000.71616000O-4.151192000.815040003.97280300C-4.13556600-1.471857004.75655000H-4.82356300-2.177378004.28266700H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C5.815333003.974938001.02537700H6.018013001.850359001.20892600C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.25998000.16694700C3.65601300-0.606504003.43632500	0	2.32765100	0.57721300	-1.06176700
H1.293923000.299408000.71616000O-4.151192000.815040003.97280300C-4.13556600-1.471857004.75655000H-4.82356300-2.177378004.28266700H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C5.815333003.974938001.02537700H6.018013001.850359001.20892600C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.25998000.16694700C3.65601300-0.605504003.43632500	Н	1.12207900	1.90155000	-0.02526800
O -4.15119200 0.81504000 3.97280300   C -4.13556600 -1.47185700 4.75655000   H -4.82356300 -2.17737800 4.28266700   H -4.58131800 -1.08312700 5.67007400   H -3.21422200 -2.01162000 4.98640800   O -1.89039300 -1.58522600 0.40158100   Si -0.79130200 -2.29599200 -0.65888600   C -1.80628300 -3.12833500 -2.02969200   C 0.43014400 -3.38802100 0.30644100   Si 3.91961600 0.58675500 -0.53719200   C 4.91465000 -0.01504300 -2.03904400   C 4.37581100 2.36051900 -0.09797600   C 5.45432300 2.65636900 0.75550600   C 5.81533300 3.97493800 1.02537700   H 6.01801300 1.85035900 1.20892600   C 5.09624900 5.02764000 0.45851500   H 2.83046800	Н	1.29392300	0.29940800	0.71616000
C-4.13556600-1.471857004.75655000H-4.82356300-2.177378004.28266700H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C5.815333003.974938001.02537700H6.018013001.850359001.20892600C5.096249005.027640000.45851500H6.653142004.181828001.68239900H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700H4.93141100-2.25908000.16694700	0	-4.15119200	0.81504000	3.97280300
H-4.82356300-2.177378004.28266700H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.675161900-1.753526001.07173500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.665504003.43632500	С	-4.13556600	-1.47185700	4.75655000
H-4.58131800-1.083127005.67007400H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.665504003.43632500	Н	-4.82356300	-2.17737800	4.28266700
H-3.21422200-2.011620004.98640800O-1.89039300-1.585226000.40158100Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.67816900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Н	-4.58131800	-1.08312700	5.67007400
O -1.89039300 -1.58522600 0.40158100   Si -0.79130200 -2.29599200 -0.65888600   C -1.80628300 -3.12833500 -2.02969200   C 0.43014400 -3.38802100 0.30644100   Si 3.91961600 0.58675500 -0.53719200   C 4.91465000 -0.01504300 -2.03904400   C 4.37581100 2.36051900 -0.09797600   C 5.45432300 2.65636900 0.75050600   C 5.45432300 2.65636900 -0.65978200   C 5.81533300 3.97493800 1.02537700   H 6.01801300 1.85035900 1.20892600   C 4.01864400 4.75506300 -0.38427900   H 2.83046800 3.23584600 -1.32203500   C 5.09624900 5.02764000 0.45851500   H 6.65314200 4.18182800 1.68239900   H 5.37341000 6.05383100 0.67334400   C 4.07816900 -0.440	Н	-3.21422200	-2.01162000	4.98640800
Si-0.79130200-2.29599200-0.65888600C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C3.666659003.433996001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57008800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	0	-1.89039300	-1.58522600	0.40158100
C-1.80628300-3.12833500-2.02969200C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Si	-0.79130200	-2.29599200	-0.65888600
C0.43014400-3.388021000.30644100Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	-1.80628300	-3.12833500	-2.02969200
Si3.919616000.58675500-0.53719200C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	0.43014400	-3.38802100	0.30644100
C4.91465000-0.01504300-2.03904400C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C4.61581000-2.479028002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Si	3.91961600	0.58675500	-0.53719200
C4.375811002.36051900-0.09797600C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.61581000-1.753526001.07173500C4.61581000-2.479028002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	4.91465000	-0.01504300	-2.03904400
C5.454323002.656369000.75050600C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	4.37581100	2.36051900	-0.09797600
C3.666659003.43399600-0.65978200C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	5.45432300	2.65636900	0.75050600
C5.815333003.974938001.02537700H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	3.66665900	3.43399600	-0.65978200
H6.018013001.850359001.20892600C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	5.81533300	3.97493800	1.02537700
C4.018644004.75506300-0.38427900H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Н	6.01801300	1.85035900	1.20892600
H2.830468003.23584600-1.32203500C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	4.01864400	4.75506300	-0.38427900
C5.096249005.027640000.45851500H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Н	2.83046800	3.23584600	-1.32203500
H6.653142004.181828001.68239900H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	5.09624900	5.02764000	0.45851500
H3.456196005.57000800-0.82710100H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Н	6.65314200	4.18182800	1.68239900
H5.373410006.053831000.67334400C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Н	3.45619600	5.57000800	-0.82710100
C4.07816900-0.440049001.03625700C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	Н	5.37341000	6.05383100	0.67334400
C4.57161900-1.753526001.07173500C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	4.07816900	-0.44004900	1.03625700
C3.626595000.117508002.24598500C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	4.57161900	-1.75352600	1.07173500
C4.61581000-2.479028002.26152000H4.93141100-2.225908000.16694700C3.65601300-0.606504003.43632500	С	3.62659500	0.11750800	2.24598500
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C 3.65601300 -0.60650400 3.43632500	Н	4.93141100	-2.22590800	0.16694700
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Н	4.45187100	-2.16296800	-1.85635700
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Н	6.55849100	-0.93805300	-0.90561700
С	4.79058400	1.04696100	-3.15101200
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Н	5.33918500	0.71242200	-4.04010200
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11			
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С	1.19220700	0.72203300	-0.25644400
С	-4.11166900	-0.11882200	3.60170300
Н	-5.17988300	4.77573600	-0.81960800
Н	-4.63462000	4.59651900	0.86361900
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0	2.33994800	0.43583000	-1.03645200

Н	1.10755800	1.80075200	-0.07856800
Н	1.25394300	0.22463000	0.71580400
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С	-4.37635200	-1.12886800	4.67673200
Н	-6.89875200	3.72353700	1.50915900
Н	-7.44850500	3.89906200	-0.17453200
Н	-7.03098400	5.33253500	0.77917600
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Н	-3.43172300	-1.50312800	5.07777800
0	-1.81452500	-1.62328400	0.53982900
Si	-0.72394800	-2.38297800	-0.48962600
С	-1.74943400	-3.38334600	-1.73520900
С	0.60239900	-3.31705700	0.51100800
Si	3.91459000	0.61263800	-0.48617900
С	4.99442400	-0.04827900	-1.90239300
С	4.23117600	2.44767300	-0.20765200
С	5.25972800	2.89739200	0.63501400
С	3.46730800	3.41060900	-0.88589200
С	5.52036100	4.25822900	0.79222200
Н	5.86306800	2.17957500	1.18104800
С	3.71818400	4.77329300	-0.72794700
Н	2.66690000	3.09301800	-1.54576300
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Н	3.11338200	5.50111200	-1.25809900
Н	4.94618400	6.25842100	0.23508800
С	4.09449100	-0.25189100	1.18025700
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С	3.55793000	0.37687400	2.31846600
С	4.72118800	-2.13038400	2.60395100
Н	5.10337300	-2.04217100	0.50720900
С	3.58925600	-0.23481500	3.57015600
Н	3.11012100	1.36113000	2.23089500
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53			
11			
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C -0.00243400 2.67609100 -0.50878300   C 1.77800400 1.2108200 -1.75507700   C 0.29234500 -1.03247900 -1.18678900   O 0.59412500 3.69022800 -0.77275800   O -1.11578500 2.53134300 0.16405200   H 1.48542900 0.98261600 -2.79318600   C 2.61429400 0.04133700 -1.20740600   C 2.61429400 0.04133700 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -0.66206800 -2.03728300 -0.468419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.0721500   H -0.30245700 -3.02518500 -0.88538900   C -3.0258600 <t< th=""><th></th><th></th><th></th><th></th></t<>				
C 1.77800400 1.21008200 -1.75507700   C 0.29234500 -1.03247900 -1.18678900   O 0.59412500 3.69022800 -0.77275800   O -1.11578500 2.53134300 0.16405200   H 1.48542900 0.98261600 -2.79318600   C 2.61429400 0.04133700 -1.20740600   C 1.76319900 -1.21372400 -0.86311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.68419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.868538900   C -3.0258600 <	С	-0.00243400	2.67609100	-0.50878300
C 0.29234500 -1.03247900 -1.18678900   O 0.59412500 3.69022800 -0.77275800   O -1.11578500 2.53134300 0.16405200   H 1.48542900 0.98261600 -2.79318600   C 2.61429400 0.04133700 -1.20740600   C 1.76319900 -1.21372400 -0.66311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.64819800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   D -1.96701700 -1.81394300 -1.10721500   H -0.3025700 -3.02518500 -0.68538900   C -3.02528600 3.33116300 1.37882800   C -3.02528600 3.33116300 1.34821800   H -1.04421500 <td< td=""><td>С</td><td>1.77800400</td><td>1.21008200</td><td>-1.75507700</td></td<>	С	1.77800400	1.21008200	-1.75507700
O 0.59412500 3.69022800 -0.77275800   O -1.11578500 2.53134300 0.16405200   H 1.48542900 0.98261600 -2.79318600   C 2.61429400 0.04133700 -1.20740600   C 1.76319900 -1.21372400 -0.86311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   G 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.8638900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500	С	0.29234500	-1.03247900	-1.18678900
O -1.11578500 2.53134300 0.16405200   H 1.48542900 0.98261600 -2.79318600   H 2.32886000 2.14728900 -1.75554000   C 2.61429400 0.04133700 -1.20740600   C 1.76319900 -1.21372400 -0.86311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.68419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.2099260 -0.16669400   C -2.3433000 <t< td=""><td>0</td><td>0.59412500</td><td>3.69022800</td><td>-0.77275800</td></t<>	0	0.59412500	3.69022800	-0.77275800
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H 2.32886000 2.14728900 -1.75554000   C 2.61429400 0.04133700 -1.20740600   C 1.76319900 -1.21372400 -0.86311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.68419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.22923500 1.35963300   C -3.02528600 3.33116300 1.37882800   C -2.93433000 -1.82853900 -0.02544200   O -2.2492700	Н	1.48542900	0.98261600	-2.79318600
C 2.61429400 0.04133700 -1.20740600   C 1.76319900 -1.21372400 -0.86311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.68419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.22923500 1.35963300   C -3.02528600 3.33116300 1.37882800   C -2.93433000 -1.82853900 -0.02544200   O -2.22492700 -2.36769300 1.08856500   H -0.68890900	Н	2.32886000	2.14728900	-1.75554000
C 1.76319900 -1.21372400 -0.86311900   H 0.15423300 -0.98958400 -2.26857300   C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.68419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.22923500 1.35963300   C -3.02528600 3.33116300 1.37882800   C -3.02528600 3.33116300 1.37882800   C -2.93433000 -1.82853900 -0.02544200   O -2.22492700 -2.36769300 1.08856500   H -0.68890900	С	2.61429400	0.04133700	-1.20740600
H0.15423300-0.98958400-2.26857300C-0.66206800-2.03728300-0.57730300C-1.756364003.753602000.68419800O3.155437000.443362000.04473700H3.39762200-0.19818500-1.92603100O1.92507500-1.381816000.53566000H2.11030000-2.08801300-1.41945300O-1.96701700-1.81394300-1.10721500H-0.30245700-3.02518500-0.88538900C-0.86049300-1.980408000.94562900H-1.044215004.229235001.35963300H-1.941450004.40999600-0.16669400C-3.025286003.331163001.37882800C-3.025286003.331163001.37882800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C-3.40072100-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H2.83960500-1.030154003.02793000H4.21935800-1.030154003.02793000H-2.8146300-2.438322001.39638600H-2.84499300-1.07543000.98968300H	С	1.76319900	-1.21372400	-0.86311900
C -0.66206800 -2.03728300 -0.57730300   C -1.75636400 3.75360200 0.68419800   O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.22923500 1.35963300   C -3.02528600 3.33116300 1.37882800   C -3.02528600 3.33116300 1.37882800   C -3.02528600 3.33116300 1.37882800   C -2.93433000 -1.82853900 -0.02544200   O -2.22492700 -2.36769300 1.08856500   H -0.68890900 -0.97873800 1.34821800   H -2.81446300	Н	0.15423300	-0.98958400	-2.26857300
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O 3.15543700 0.44336200 0.04473700   H 3.39762200 -0.19818500 -1.92603100   O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.22923500 1.35963300   H -1.94145000 4.40999600 -0.16669400   C -3.02528600 3.33116300 1.37882800   C 3.11827200 -0.68453400 0.93177800   C -2.93433000 -1.82853900 -0.02544200   O -2.22492700 -2.36769300 1.08856500   H -0.68890900 -0.97873800 1.34821800   H -3.51572000 4.22332000 1.77691900   C 2.93966500 -0.18419800 2.34553100   C -3.40072100	С	-1.75636400	3.75360200	0.68419800
H3.39762200-0.19818500-1.92603100O1.92507500-1.381816000.53566000H2.11030000-2.08801300-1.41945300O-1.96701700-1.81394300-1.10721500H-0.30245700-3.02518500-0.88538900C-0.86049300-1.980408000.94562900H-1.044215004.229235001.35963300H-1.941450004.40999600-0.16669400C-3.025286003.331163001.37882800C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.65553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.4094800H4.41935800-1.91521000-0.29244500H4.27501000-2.438322001.36638600H4.27501000-2.438322001.36634600H-3.66341600-3.76669800-0.59017600	0	3.15543700	0.44336200	0.04473700
O 1.92507500 -1.38181600 0.53566000   H 2.11030000 -2.08801300 -1.41945300   O -1.96701700 -1.81394300 -1.10721500   H -0.30245700 -3.02518500 -0.88538900   C -0.86049300 -1.98040800 0.94562900   H -1.04421500 4.22923500 1.35963300   H -1.94145000 4.40999600 -0.16669400   C -3.02528600 3.33116300 1.37882800   C -3.02528600 -1.82853900 -0.02544200   O -2.23433000 -1.82853900 -0.02544200   O -2.22492700 -2.36769300 1.08856500   H -0.24048900 -2.69474500 1.48009300   H -0.24048900 -2.69474500 1.4809300   H -0.24048900 -2.69474500 1.48009300   H -2.81446300 2.65555300 2.21044700   H -3.51572000 4.22332000 1.77691900   C -3.40072100	Н	3.39762200	-0.19818500	-1.92603100
H2.11030000-2.08801300-1.41945300O-1.96701700-1.81394300-1.10721500H-0.30245700-3.02518500-0.88538900C-0.86049300-1.980408000.94562900H-1.044215004.229235001.35963300H-1.941450004.40999600-0.16669400C-3.025286003.331163001.37882800C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.438322001.39638600H4.259049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	0	1.92507500	-1.38181600	0.53566000
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H-0.30245700-3.02518500-0.88538900C-0.86049300-1.980408000.94562900H-1.044215004.229235001.35963300H-1.941450004.40999600-0.16669400C-3.025286003.331163001.37882800C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.438322001.39638600H-3.66341600-3.76669800-0.59017600	0	-1.96701700	-1.81394300	-1.10721500
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H-1.044215004.229235001.35963300H-1.941450004.40999600-0.16669400C-3.025286003.331163001.37882800C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H4.41935800-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	-0.86049300	-1.98040800	0.94562900
H-1.941450004.40999600-0.16669400C-3.025286003.331163001.37882800C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-3.66341600-3.76669800-0.59017600	Н	-1.04421500	4.22923500	1.35963300
C-3.025286003.331163001.37882800C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-3.711640002.842656000.68413900H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	-1.94145000	4.40999600	-0.16669400
C3.11827200-0.684534000.93177800C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H2.046162000.439151002.64411200H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H4.27501000-2.438322001.39638600H4.27501000-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	-3.02528600	3.33116300	1.37882800
C-2.93433000-1.82853900-0.02544200O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H4.41935800-1.91521000-0.29244500H4.27501000-2.438322001.39638600H4.27501000-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	3.11827200	-0.68453400	0.93177800
O-2.22492700-2.367693001.08856500H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H4.41935800-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.438322001.39638600H-3.66341600-3.76669800-0.59017600	С	-2.93433000	-1.82853900	-0.02544200
H-0.68890900-0.978738001.34821800H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H4.2135800-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	0	-2.22492700	-2.36769300	1.08856500
H-0.24048900-2.694745001.48009300H-3.711640002.842656000.68413900H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H4.41935800-1.030154003.02793000H4.27501000-2.438322001.39638600H4.27501000-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	-0.68890900	-0.97873800	1.34821800
H-3.711640002.842656000.68413900H-2.814463002.65553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	-0.24048900	-2.69474500	1.48009300
H-2.814463002.655553002.21044700H-3.515720004.223320001.77691900C2.93966500-0.184198002.34553100C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	-3.71164000	2.84265600	0.68413900
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C4.34187600-1.568144000.74035200C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	2.93966500	-0.18419800	2.34553100
C-4.06273700-2.77207900-0.38341700C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	4.34187600	-1.56814400	0.74035200
C-3.40072100-0.404497000.24766800H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	-4.06273700	-2.77207900	-0.38341700
H3.810997000.401455002.64411200H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	С	-3.40072100	-0.40449700	0.24766800
H2.046162000.439151002.40904800H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	3.81099700	0.40145500	2.64411200
H2.83960500-1.030154003.02793000H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	2.04616200	0.43915100	2.40904800
H4.41935800-1.91521000-0.29244500H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	2.83960500	-1.03015400	3.02793000
H5.24499300-1.007543000.98968300H4.27501000-2.438322001.39638600H-4.59049500-2.40556600-1.26624800H-3.66341600-3.76669800-0.59017600	Н	4.41935800	-1.91521000	-0.29244500
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11			
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Н	-0.91402700	-3.17560000	0.51280700
Н	0.03126300	0.90607600	4.13526800
Н	1.20195800	-0.38698800	3.78889700
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Н	-2.77768600	4.53996800	-0.57759000
Ν	-0.40152800	2.57371600	-0.96087600
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11			
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С	1.05922700	1.73950800	-1.28793300
С	-0.18775600	-0.65722000	-1.08234200
Н	0.34426900	1.88325700	-2.09945200
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С	1.97071100	0.57349300	-1.63450700
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Н	-0.77791200	-0.19594000	-1.87881600
С	-0.84931600	-1.98228400	-0.73050800
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Н	2.39736600	0.74190300	-2.62553200
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С	-2.68770200	-2.32898900	0.68676400
0	1 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 20222100	1 00 00 000
-	-1.63307800	-3.20223100	1.08/98200
Н	0.30033200	-3.44016600	0.44959300
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С	-3.02268800	3.13544500	-0.62508800
Н	-2.68755600	4.12704000	-0.93257000
Н	-3.38937900	3.18310800	0.40077000
С	-4.04098000	2.55132800	-1.57201000
Н	-4.92632400	3.19256300	-1.57858800
Н	-3.64804100	2.49832700	-2.59008700
Н	-4.34265100	1.55060700	-1.25417900
С	1.80638500	1.72957500	2.06980100
С	2.66418500	1.83673400	3.20999700
Н	3.70332000	1.78486000	2.87529300
Н	2.47491300	2.79085800	3.70901000
Н	2.44771200	1.01036100	3.89201600
Ν	1.14036100	1.63030700	1.14778000

# 6 NMR spectra of compounds







Fig. S10 <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>) of 37







#### 7.155 7.157 7.









Fig. S24 <sup>13</sup>C NMR (151 MHz, CDCl<sub>3</sub>) of S27

























S128















S134















BnO -OBn NHAc 0 FtO. **36r**β



#### 7,133 7,12,123 7,1




















# \$592 \$592 \$592 \$593 \$593 \$514 \$526 \$52





















S156



S157













Fig. S115 <sup>1</sup>H NMR (600 MHz, CDCl<sub>3</sub>) of 46p









#### 7 Reference

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