Electronic Supporting Information

Mechanistic Insight into Hydroxamate Transfer Reaction Mimicking the Inhibition of Zinc-Containing Enzymes

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Experimental Section

Materials. All chemicals obtained from Aldrich Chemical Co. were the best available purity and used without further purification unless otherwise indicated. The solvents acetonitrile (CH₃CN) and diethyl ether (Et₂O) were passed through solvent purification columns (JC Meyer Solvent Systems) prior to use. The *N*,*N*'-di-tert-butyl-2,11diaza[3.3](2,6)-pyridinophane (TBDAP) ligand was prepared by reacting 2,6-bis-(chloromethyl)pyridine with 2,6-bis[(*N*-tert-butylamino)methyl]-pyridine at 80 °C as reported previously.^{S1} [Co(TBDAP)(NO₃)(H₂O)](NO₃) and [Co(TBDAP)(CH₃C(=NO)O)](NO₃)(H₂O) (**2**-NO₃·H₂O) were prepared according to literature method.^{S2} Human matrix metalloproteinase-9 (MMP-9) full-length protein and 4aminophenylmercuric acetate (APMA) were purchased from Abcam (Cambridge, UK) and used without further purification. Two peptides, PLGMWSR and HH, were obtained from Anygen Co. Ltd. (Gwangju, Korea).

Instrumentation. UV-vis spectra were recorded on a Hewlett Packard 8454 diode array spectrophotometer equipped with a UNISOKU Scientific Instruments for low-temperature experiments or with a circulating water bath. Electrospray ionization mass (ESI-MS) spectra were collected on a Waters (Milford, MA, USA) Acquity SQD quadrupole Mass instrument, by infusing samples directly into the source using a manual method. The spray voltage was set at 2.5 kV and the capillary temperature at 80 °C. Infrared spectra were recorded on a Thermo Scientific Nicolet iS10 FT-IR spectrometer equipped with a diamond attenuated total reflectance (ATR) accessory. ¹H NMR spectra were measured with Bruker AVANCE III-400 spectrometer at CCRF in DGIST. The crystallographic analysis was conducted with a SMART APEX II CCD equipped with a Mo X-ray tube at CCRF in DGIST. Mass spectrometric analyses for analyzing %inhibition against MMP-9 were performed by an Agilent 6530 Accurate Mass Quadrupole Time-of-Flight (Q-TOF) mass

spectrometer (Agilent Technologies, Santa Clara, USA) equipped with the ESI source, operating in the positive ion mode. The capillary voltage, drying gas flow, and the gas temperature were set to 5.8 kV, 12 L/min, and 300 °C, respectively. The fragmentor voltage was set to 170 V.

Synthesis of [Co(TBDAP)(CH₃C(-NHO)O)](NO₃) (1-NO₃). 1 was prepared by reacting [Co(TBDAP)(NO₃)(H₂O)](NO₃) (0.0278 g, 0.050 mmol) and acetohydroxamic acid (0.0038 g, 0.050 mmol) with 2 equiv of TEA in CH₃CN (10 mL). The mixture was stirred for 6 h at ambient temperature, resulting that the color was changed from pink to orange. The resulting solution was dried in a vacuo and then, washed with Et₂O (40 mL). X-ray crystallographically suitable crystals were obtained by slow diffusion of Et₂O into a solution of the complex in CH₃CN. Crystalline yield: 94% (0.0257 g). UV-vis in CH₃CN: λ_{max} (ε) = 361 nm (1900 M⁻¹ cm⁻¹), 468 nm (100 M⁻¹ cm⁻¹). ESI-MS in CH₃CN (see Figure S1): *m/z* 485.33 for [Co(TBDAP)(CH₃C(-NHO)O)]⁺. FT-IR (ATR) (see Figure S2): 3207 cm⁻¹ (w, N-H). μ_{eff} = 4.41 B.M. Anal. Calcd for C₂₄H₃₆CoN₆O₅: C, 52.65; H, 6.63; N, 15.35. Found: C, 52.12; H, 6.53; N, 15.33.

Synthesis of $[Zn(Me_3-TACN)(NO_3)](NO_3)(H_2O)$ (3-NO₃·H₂O). 3 was synthesized according to a modified literature method.^{S3} 3 was prepared by reacting $Zn(NO_3)_2$ ·6H₂O (0.348 g, 1.17 mmol) and Me₃-TACN (0.200 g, 1.17 mmol) in ethanol (15 mL). The mixture was gently heated with stirring for 6 h, giving a colorless solution. Et₂O (40 mL) was added to the resulting solution to yield a white powder, which was collected by filtration, washed with Et₂O, and dried in a vacuo. The colorless crystals were obtained by slow diffusion of Et₂O into a solution of the complex in CH₃CN. Crystalline yield: 58%

(0.2570 g). ESI-MS in CH₃CN (see Figure S9): *m/z* 297.2 for [Zn(Me₃-TACN)(NO₃)]⁺. Anal. Calcd for C₉H₂₃N₅O₇Zn: C, 28.54; H, 6.12; N, 18.49. Found: C, 28.62; H, 6.17; N, 18.70.

Synthesis of $[Zn(Me_3-TACN)(CH_3C(-NHO)O)(CH_3OH)](BPh_4)$ (4-CH₃OH·BPh₄). 4 was synthesized by reacting 3 (0.0189 g, 0.050 mmol) and acetohydroxamic acid (0.0152 g, 0.20 mmol) with 8 equiv of TEA in CH₃CN (10 mL). The mixture was stirred for 6 h, giving a colorless solution. Et₂O (40 mL) was added to the resulting solution to yield a white powder, which was collected by filtration, washed with Et₂O, and dried in a vacuo. X-ray crystallographically suitable crystals of 4-CH₃OH·BPh₄ were obtained by slow diffusion of Et₂O into a CH₃OH solution of the white product in the presence of NaBPh₄ (0.0170 g). Crystalline yield: 32% (0.0107 g). ESI-MS in CH₃CN (see Figure S10): *m/z* 309.4 for [Zn(Me₃-TACN)(CH₃C(-NHO)O)]⁺. Anal. Calcd for C₃₆H₄₉BN₄O₃Zn: C, 65.31;

H, 7.46; N, 8.46. Found: C, 65.14; H, 7.15; N, 8.55.

Synthesis of [Co(TBDAP)(CH₃C(-NHO)O)](NO₃)(ClO₄)(H₂O) (5-NO₃·ClO₄·H₂O). 5 was prepared by adding 1 equiv of HClO₄ to the solution of 2 (0.0282 g, 0.050 mmol) in CH₃CN (1.5 mL), resulting in the generation of a pale green solution at -40 °C. Et₂O (40 mL) was added to the resulting solution to yield a pale green powder, which was washed with Et₂O, and dried in a vacuo. Pale green powder dissolves in CH₃CN at -40 °C. The solid was recrystallized from slow diffusion Et₂O to give 5 at -40 °C. Yield: 40% (0.0133 g). UV-vis in CH₃CN (see Figure S12a): λ_{max} (ε) = 310 nm (3200 M⁻¹ cm⁻¹), 420 nm (190 M⁻¹ cm⁻¹), 820 nm (240 M⁻¹ cm⁻¹). ESI-MS in CH₃CN (see Figure S12b): *m/z* 242.73 for [Co(TBDAP)(CH₃C(-NHO)O)]²⁺. Anal. Calcd for C₂₄H₃₈ClCoN₆O₁₀: C, 43.35; H, 5.76; N, 12.64. Found: C, 43.13; H, 5.37; N, 12.87.

Synthesis of [Co(TBDAP)(C₆H₅C(-NHO)O)](NO₃)(H₂O) (6-NO₃·H₂O). 6 was prepared by reacting [Co(TBDAP)(NO₃)(H₂O)](NO₃) (0.0278 g, 0.050 mmol) and benzohydroxamic acid (0.0069 g, 0.050 mmol) with 2 equiv of TEA in CH₃CN (10 mL). The mixture was stirred for 6 h at ambient temperature, resulting that the color was changed from pink to orange. The resulting solution was dried in a vacuo and then, washed with Et₂O (40 mL). yield: 91% (0.0286 g). UV-vis in CH₃CN (see Figure S15): λ_{max} (ε) = 355 nm (2300 M⁻¹ cm⁻¹). ESI-MS in CH₃CN (see Figure S15): *m/z* 547.1 for [Co(TBDAP)(C₆H₅C(-NHO)O)]⁺. Anal. Calcd for C₂₉H₄₀CoN₆O₆: C, 55.50; H, 6.42; N, 13.39. Found: C, 55.4; H, 6.21; N, 13.4.

Magnetic Moment Measurement. The effective magnetic moments were determined by the ¹H NMR Evans method at 25 °C.^{S4-S6} A WILMAD[®] coaxial insert (sealed capillary) tube containing the blank acetonitrile- d_3 solvent (with 1.0 % TMS) only was inserted into the normal NMR tube containing the complexes dissolved in acetonitrile- d_3 (with 0.03 % TMS). The chemical shift of the TMS peak (and/or solvent peak) in the presence of the paramagnetic metal complexes was compared to that of the TMS peak (and/or solvent peak) in the inner coaxial insert tube. The effective magnetic moments were calculated using the equation, $\mu_{eff} = 0.0618(\Delta v T/2fM)^{1/2}$, where *f* is the oscillator frequency (MHz) of the superconducting spectrometer, *T* is the absolute temperature, *M* is the molar concentration of the metal ion, and Δv is the difference in frequency (Hz) between the two reference signals.^{S6} **X-ray Crystallography.** Single crystals of **1**-NO₃ and **4**-CH₃OH-BPh₄ were picked from solutions by a nylon loop (Hampton Research Co.) on a hand made copper plate mounted inside a liquid N₂ Dewar vessel at *ca.* –40 °C and mounted on a goniometer head in a N₂ cryostream. Data collections were carried out on a Bruker SMART APEX II CCD diffractometer equipped with a monochromator in the Mo K α ($\lambda = 0.71073$ Å) incident beam. The CCD data were integrated and scaled using the Bruker-SAINT software package, and the structure was solved and refined using SHEXTL V 6.12.^{S7} Hydrogen atoms were located in the calculated positions except H1 for **1** and **4** and H2 for **4**, which were found from the Fourier difference map. All non-hydrogen atoms were refined with anisotropic thermal parameters. The crystallographic data with the selected bond distances and angles for **1**-NO₃ and **4**-CH₃OH-BPh₄ are listed in Tables S1 and S2. Crystal data for **1**-NO₃: C₂₄H₃₆CoN₆O₅, triclinic, *P*T̄, *Z* = 2, *a* = 10.7961(4), *b* = 11.0539(5), *c* = 13.2535(6) Å, *a* =

92.008(2), $\beta = 113.595(2)$, $\gamma = 110.629(2)^{\circ}$, V = 1327.60(10) Å³, $\mu = 0.691$ mm⁻¹, $\rho_{calcd} =$ 1.370 g/cm³, $R_1 = 0.0371$, $wR_2 = 0.0810$ for 5211 unique reflections, 345 variables. The hydrogen bonding interaction is found between hydroxamate N-H of 1 and nitrate anion (N5...O4 2.994(3) Å, N5-H1A...O4 163(3)°). Crystal data for 4-CH₃OH·BPh₄: $C_{36}H_{49}BN_4O_3Zn$, triclinic, $P\overline{1}$, Z = 2, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), b = 11.588(19), c = 14.33(2) Å, a = 11.260(18), b = 11.588(19), b = 11.58869.62(6), $\beta = 75.44(3)$, $\gamma = 80.18(7)^{\circ}$, V = 1689.(5) Å³, $\mu = 0.768$ mm⁻¹, $\rho_{calcd} = 1.302$ g/cm³, $R_1 = 0.0448$, $wR_2 = 0.1129$ for 8332 unique reflections, 415 variables. CCDC-1847955 for 1-NO₃ and CCDC-1864483 for 4-CH₃OH·BPh₄ contain the supplementary crystallographic data for this paper. These data be obtained free of charge can via www.ccdc.cam.ac.uk/data request/cif (or from the Cambridge Crystallographic Data

Centre, 12, Union Road, Cambridge CB2 1EZ, UK; fax: (+44) 1223-336-033; or deposit@ccdc.cam.ac.uk).

Reactivity Studies. All reactions were performed in a 1-cm UV cuvette by monitoring UVvis spectral changes of reaction solutions, and rate constants were determined by fitting the changes in absorbance at 356 nm for the decay of **1**. Reactions were run at least in triplicate, and the data reported represent the average of these reactions. The crystal of **1** (0.25 mM) was used in reactivity studies. After the completion of reactions, pseudo-first-order fitting of the kinetic data allowed us to determine k_{obs} values.

Cyclic voltammetry. Electrochemical measurements were performed on a CHI600E electrochemical analyzer in a CH₃CN containing *n*-Bu₄NPF₆ (TBAPF₆, 0.10 M) as a supporting electrolyte at 298 K. A conventional three-electrode cell was used with a platinum working electrode (surface area of 0.3 mm^2), a platinum wire as a counter electrode and an Ag/AgNO₃ (0.010 M) electrode as a reference electrode. The platinum working electrode (BAS) was routinely polished with BAS polishing alumina suspension and rinsed with acetone and acetonitrile before use. The measured potentials were recorded with respect to an Ag/AgNO₃ (0.010 M) reference electrode. All potentials (vs. Ag/Ag⁺) were converted to values vs. SCE by using the potential of ferrocene in the same conditions. All electrochemical measurements were carried out under N₂ atmosphere.

Equilibrium constant. The expression used for determination of K_{eq} was derived according to a literature method.^{S8} The equation of equilibrium is provided below. The K_{eq} values of 5.9×10^{-2} and 4.4×10^{-2} are determined from the slope of the linear plot (α^{-1} -1)⁻¹ against [1]₀/ α [3]₀-1 and [6]₀/ α [3]₀-1, respectively (see Figure S4 and S18).

$$K_{eq} = \frac{[[Co(TBDAP)(NO_3)(H_2O)]^+] \cdot [[Zn(Me_3 - TACN)(CH_3C(-NHO)O)]^+]}{[[Co(TBDAP)(CH_3C(-NHO)O)]^+] \cdot [[Zn(Me_3 - TACN)(NO_3)]^+]}$$

$$\frac{1}{K_{eq}} = \left(\frac{[[Co(TBDAP)(CH_3C(-NHO)O)]^+]_0}{[[Co(TBDAP)(NO_3)(H_2O)]^+]} - 1\right) \left(\frac{[[Zn(Me_3 - TACN)(NO_3)]^+]_0}{[[Co(TBDAP)(NO_3)(H_2O)]^+]} - 1\right)$$

$$\alpha = \frac{[[Co(TBDAP)(NO_3)(H_2O)]^+]}{[[Zn(Me_3 - TACN)(NO_3)]^+]_0}$$

$$(\alpha^{-1} - 1)^{-1} = K_{eq} \cdot \frac{[[Co(TBDAP)(CH_3C(-NHO)O)]^+]_0}{\alpha[[Zn(Me_3 - TACN)(NO_3)]^+]_0} = K_{eq} \cdot \frac{[1]_0}{\alpha[3]_0 - 1}$$

Theoretical calculations. DFT calculations were performed to obtain mechanistic insights into the hydroxamate transfer reaction. M06/[Lanl2dz(Co,Zn),6-31G*] (method 1) was used for geometry optimization, whereas M06(SCRF,acetonitrile)/def2-TZVP (method 2) was used for energy evaluations.^{S9-S12} Free energy corrections were obtained from frequency calculations with method 2. The quartet spin state of the system was examined. Gaussian 09 was used for DFT calculations.^{S13}

Inhibition against MMP-9. The peptide, PLGMWSR, was chosen as a substrate of MMP-9.^{S14,S15} The concentration of the substrate was determined by measuring the absorbance of the solution at 280 nm ($\varepsilon = 5690 \text{ M}^{-1}\text{cm}^{-1}$).^{S16} MMP-9 (44 nM) was activated by incubation with APMA (1 mM) in 50 mM tris [tris = tris(hydroxymethyl)aminomethane], pH 7.4, 100 mM NaCl, and 10 mM CaCl₂ at 37 °C for 2 h with constant agitation.^{S17} The activated MMP-9 (20 nM) was preincubated with or without an inhibitor [acetohydroxamic acid, benzohydroxamic acid, **1**, **2**, and **6**] (10 mM) in the buffered solution for 15 min at room temperature with constant agitation followed by addition of the substrate (1 mM). Due to the limited solubility of **6** in H₂O, DMSO was used as a vehicle for testing its inhibitory activity, compared to **1**. The reaction mixtures were incubated at room temperature for 8 or 12 h without agitation and diluted by 1,000 fold with H₂O before injection into the mass spectrometer. All measurements were conducted with HH (10 μ M; H, histidine) as an internal standard (*vide infra*). The percentage of inhibition against MMP-9 by each molecule was calculated by analyzing the amount of the substrate from the samples, relative to that of the control treated with the equal volume of H₂O or DMSO (vehicle).

Internal standard calibration. The concentration of HH was determined by measuring the absorbance of the solution at 210 nm ($\epsilon = 13180 \text{ M}^{-1}\text{cm}^{-1}$).^{S18} Different concentrations of PLGMWSR (0.5 – 12.5 μ M) were prepared in the buffered solution (0.5 mM tris, pH 7.4, 1 mM NaCl, and 0.1 mM CaCl₂) with or without DMSO (0.1% v/v) and diluted by 10 fold with H₂O. The resulting solutions were injected to the mass spectrometer with the internal standard, HH (10 μ M) to construct calibration plots (Figure S13). The calibration equation was derived by linear regression of the signal intensity ratio between the substrate and the internal standard.

Docking studies. Docking of **1** with the catalytic domain of MMP-9 obtained from the previously reported X-ray crystal structure (PDB 4H3X)^{S19} was determined by AutoDock Vina.^{S20} The X-ray crystal structure of **1** was converted to the PDB format by Mercury software. The structural files of the protein were generated by AutoDock Tools and imported into PyRx to run AutoDock Vina.^{S20, S21} A grid map was set to contain the active site of the protein. The exhaustiveness was set to 1024. The resultant poses of **1** with the catalytic domain of MMP-9 were visualized using Pymol.

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	1- NO ₃	4-CH ₃ OH·BPh ₄
Empirical formula	$C_{24}H_{36}CoN_6O_5$	$C_{36}H_{49}BN_4O_3Zn$
Formula weight	547.52	661.97
Temperature (K)	143(2)	153(2)
Wavelength (Å)	0.71073	0.71073
Crystal system/space group	triclinic, $P\overline{1}$	triclinic, $P\overline{1}$
Unit cell dimensions		
<i>a</i> (Å)	10.7961(4)	11.260(18)
<i>b</i> (Å)	11.0539(5)	11.588(19)
<i>c</i> (Å)	13.2535(6)	14.33(2)
α (°)	92.008(2)	69.62(6)
eta (°)	113.595(2)	75.44(3)
γ(°)	110.629(2)	80.18(7)
Volume (Å ³)	1327.60(10)	1689.(5)
Ζ	2	2
Calculated density (g/cm ⁻³)	1.370	1.302
Absorption coefficient (mm ⁻¹)	0.691	0.768
Reflections collected	34141	50708
Independent reflections [R(int)]	5211 [0.0486]	8332 [0.0990]
Refinement method	Full-matrix least-squares on F^2	Full-matrix least-squares on F^2
Data/restraints/parameters	5211/0/345	8332/0/415
Goodness-of-fit on F^2	1.047	0.825
Final <i>R</i> indices $[I > 2 \text{sigma}(I)]$	$R_1 = 0.0371, wR_2 = 0.0810$	$R_1 = 0.0448, wR_2 = 0.1129$
<i>R</i> indices (all data)	$R_1 = 0.0519, wR_2 = 0.0909$	$R_1 = 0.0820, wR_2 = 0.1364$

Table S1. Crystal Data and Structural Refinements for 1-NO3 and 4-CH3OH·BPh4

Bond Distances (Å)			
1- N	VO ₃	4- CH ₃ C	OH∙BPh₄
Co-O1	2.090(2)	Zn-O1	2.097(3)
Co-O2	1.978(2)	Zn-O2	2.053(3)
Co-N1	2.056(2)	Zn-O3	2.206(3)
Co-N2	2.366(2)	Zn-N2	2.256(3)
Co-N3	2.055(2)	Zn-N3	2.175(3)
Co-N4	2.350(2)	Zn-N4	2.169(4)
O1-C23	1.268(3)	01-C1	1.267(4)
N5-C23	1.295(3)	N1-C1	1.312(4)
O2-N5	1.363(2)	O2-N1	1.382(3)

Table S2. Selected Bond Distances (Å) and Angles (°) for 1-NO3 and 4-CH3OH·BPh4

Bond Angles (°)

1- NO ₃		4-CH ₃ OH·BPh ₄	
O1-Co-O2	79.78(6)	O1-Zn-O2	80.27(11)
N1-Co-N2	75.04(7)	O1-Zn-O3	92.05(13)
N1-Co-N3	87.30(7)	O2-Zn-O3	92.87(13)
N1-Co-N4	78.65(7)	N2-Zn-N3	81.19(13)
N2-Co-N3	78.32(7)	N2-Zn-N4	81.59(13)
N2-Co-N4	143.39(6)	N3-Zn-N4	82.19(13)
N3-Co-N4	75.42(7)	O3-Zn-N2	172.23(7)
O2-Co-N1	175.09(7)	O2-Zn-N2	92.45(13)
O1-Co-N1	96.57(7)	O1-Zn-N2	94.43(13)
O2-Co-N2	102.56(7)	O3-Zn-N3	92.17(13)
O1-Co-N2	104.08(6)	O2-Zn-N3	102.05(12)
O2-Co-N3	96.45(7)	O1-Zn-N3	175.08(8)
O1-Co-N3	175.86(7)	O3-Zn-N4	93.58(13)
O2-Co-N4	105.33(6)	O2-Zn-N4	172.14(8)
O1-Co-N4	103.82(6)	O1-Zn-N4	95.001(12)
C23-O1-Co	109.57(14)	C1-O1-Zn	109.71(18)
N5-C23-O1	120.9(2)	N1-C1-O1	121.0(2)
C23-N5-O2	119.0(2)	C1-N1-O2	120.8(2)
N5-O2-Co	110.67(13)	N1-O2-Zn	107.08(17)



Scheme S1. (a) Schematic drawings of the structures of 1 - 6 used in this study. (b) Reaction scheme depicting an intermolecular hydroxamate transfer between metal complexes (L = TBDAP; L' = Me₃-TACN).



Figure S1. ESI-MS spectrum of $[Co^{II}(TBDAP)(CH_3C(-NHO)O)](NO_3)$ (1-NO₃) in CH₃CN. Mass peak at *m/z* 485.3 corresponds to $[Co^{II}(TBDAP)(CH_3C(-NHO)O)]^+$ (calcd *m/z* 485.2). Inset shows the observed (upper) and calculated (lower) isotope distribution patterns of the peak at *m/z* 485.3.



Figure S2. FT-IR (ATR) spectra of (a) 1-NO₃ (red line): 3207 cm⁻¹ (w, N-H), and (b) 2-NO₃·H₂O (blue line): 1523 cm⁻¹ (w, C=N).



Figure S3. X-ray crystal structure of the $[Zn^{II}(Me_3-TACN)(CH_3C(-NHO)O)(CH_3OH)](BPh_4)$ (4-CH₃OH·BPh₄) with thermal ellipsoids drawn at the 30% probability level (black C, cyan H, blue N, green Zn, red O). All hydrogen atoms except H1 and H2 are omitted for clarity. H1 and H2 were found in the Fourier difference map.



Figure S4. Plot of $(\alpha^{-1}-1)^{-1}$ vs $[1]_0/\alpha[3]_0-1$ to determine the equilibrium constant (K_{eq}) between 1 and 3 in CH₃CN/H₂O (99:1) at 25 °C.



Figure S5. (a) UV-vis spectral changes of **2** (0.5 mM) upon addition of 40 equiv of **3** at -10 °C. Inset shows the time course of the absorbance at 790 nm. (b) ESI-MS spectrum taken after the completion of the reaction. Mass peaks at m/z 297.2, 356.3, and 484.3 are assigned to $[\text{Zn}^{\text{II}}(\text{Me}_3\text{-}\text{TACN})(\text{NO}_3)]^+$ (calcd m/z 297.1), $[\text{Zn}^{\text{II}}(\text{Me}_3\text{-}\text{TACN})(\text{CH}_3\text{CN})(\text{NO}_3)(\text{H}_2\text{O})]^+$ (calcd m/z 356.1), and $[\text{Co}^{\text{III}}(\text{TBDAP})(\text{CH}_3\text{C}(=\text{NO})\text{O})]^+$ (calcd m/z 484.2), respectively.



Figure S6. (a) UV-vis spectral change of **2** (0.5 mM) upon addition of 0.5 equiv of ascorbic acid in the presence of 40 equiv of **3** in CH₃CN:H₂O (99:1) at -10 °C. Inset shows the time course of the absorbance at 356 nm. (b) ESI-MS spectrum taken after the completion of the reaction. Mass peaks at m/z 297.2, 309.2, 356.3, and 485.3 correspond to $[Zn^{II}(Me_3-TACN)(NO_3)]^+$ (calcd m/z 297.1), $[Zn^{II}(Me_3-TACN)(CH_3C(-NHO)O)]^+$ (calcd m/z 309.1), $[Zn^{II}(Me_3-TACN)(CH_3CN)(NO_3)(H_2O)]^+$ (calcd m/z 356.1), and $[Co^{II}(TBDAP)(CH_3C(-NHO)O)]^+$ (calcd m/z 485.2), respectively.



Figure S7. Cyclic voltammograms of (a) 1 (3.0 mM) and (b) 2 (3.0 mM) in CH₃CN containing TBAPF₆ (0.10 M) with a Pt working electrode at ambient temperature. Scan rate was 0.1 V s⁻¹. All electrochemical measurements were performed under N₂ atmosphere.



Figure S8. Cyclic voltammograms of (a) **2** (3.0 mM) and (b) **2** (3.0 mM) in the presence of 1 equiv of HClO₄ in CH₃CN containing TBAPF₆ (0.10 M) with a Pt working electrode at ambient temperature. Scan rate was 0.1 V s⁻¹. All electrochemical measurements were performed under N₂ atmosphere.



Figure S9. ESI-MS spectrum of **3** in CH₃CN. Mass peak at m/z 297.2 corresponds to $[Zn^{II}(Me_3-TACN)(NO_3)]^+$ (calcd m/z 297.1). Inset shows the observed (upper) and calculated (lower) isotope distribution patterns of the peak at m/z 297.2.



Figure S10. ESI-MS spectrum of **4** in CH₃CN. Mass peak at m/z 309.4 corresponds to $[Zn^{II}(Me_3-TACN)(CH_3C(-NHO)O)]^+$ (calcd m/z 309.1). Inset shows the observed (upper) and calculated (lower) isotope distribution patterns of the peak at m/z 309.4.



Figure S11. UV-vis absorption spectra of **2** (0.5 mM) in the absence of HClO₄ (black) and in the presence of 1 equiv of HClO₄ (red) in CH₃CN at -40 °C.



Figure S12. (a) UV-vis absorption spectrum of isolated $[Co^{III}(TBDAP)(CH_3C(-NHO)O)]^{2+}$ (5) (2 mM) at -40 °C in CH₃CN. (b) ESI-MS spectrum of 5 in CH₃CN. ESI-MS peaks at m/z 226.2 and 242.7 are assigned to $[Co^{II}(TBDAP)(CH_3CN)]^{2+}$ (calcd. m/z 226.1) and $[Co^{III}(TBDAP)(CH_3C(-NHO)O)]^{2+}$ (calcd. m/z 242.6), respectively. Inset shows the observed (upper) and calculated (lower) isotope distribution patterns of the peak at m/z 242.7.



Figure S13. Calibration curve for the signal intensity ratio (substrate/standard) as a function of [substrate] (a) without or (b) with DMSO. Different concentrations of the substrate (PLGMWSR; $0.05 - 1.25 \mu$ M) with the internal standard (HH; 10μ M) were measured by MS.



Figure **S14**. spectral UV-vis change of in 50 mМ tris 1 [tris = tris(hydroxymethyl)aminomethane], pH 7.4, 100 mM NaCl, and 10 mM CaCl₂ at room temperature. The stability test of 1 was performed in a 0.2 cm quartz cuvette. Inset shows the time course of the absorption band at 340 nm. The absorption band at 340 nm remain intact over 24 h.



Figure S15. (a) UV-vis absorption spectrum of **6** (0.25 mM) at 25 °C in CH₃CN. (b) ESI-MS spectrum of **6** in CH₃CN. ESI-MS peak at m/z 547.1 is assigned to $[Co^{II}(TBDAP)(C_6H_5C(-NHO)O)]^+$ (calcd m/z 547.2). Inset shows the observed (upper) and calculated (lower) isotope distribution patterns of the peak at m/z 547.1.



Figure S16. Reaction of **6** with **3**. (a) UV-vis spectral change during the reaction of **6** (0.25 mM) with **3** (10 mM) in CH₃CN/H₂O (99:1) at -10 °C. Inset shows the time course of the absorption band at 355 nm. (b) ESI-MS spectra obtained for the reaction of **6** (0.25 mM) with **3** (25 mM) before (lower) and after (upper) the reaction. The peaks at *m/z* 371.1 and 547.1 are assigned to [Zn^{II}(Me₃-TACN)(C₆H₅C(-NHO)O)]⁺ (calcd *m/z* 371.1) and [Co^{II}(TBDAP)(C₆H₅C(-NHO)O)]⁺ (calcd *m/z* 547.2), respectively.



Figure S17. Plot of k_{obs} against the concentration of **3** obtained in the reaction of **6** with **3** at -10 °C to determine a second-order rate constant.



Figure S18. Plot of $(\alpha^{-1}-1)^{-1}$ vs $[6]_0/\alpha[3]_0-1$ to determine the equilibrium constant (K_{eq}) between 6 and 3 in CH₃CN/H₂O (99:1) at 25 °C.



Figure S19. UV-vis spectral change for the reaction 1 with 3 depending on concentration of the acetic acid in CH_3CN/H_2O (99:1) at 25 °C. Inset shows the decrease of the absorbance of 1 with increasing concentration of the acetic acid.



Figure S20. ESI-MS spectra taken after the completion of reaction of 1 with 3 (a) in the absence of acetic acid; (b) in the presence of acetic acid in CH₃CN/H₂O (99:1) at 298 K. The peak with asterisk is $[n-Bu_4N]^+$ as an internal standard. ESI-MS peaks at m/z 294.0, 297.0, 309.0, 470.1 and 485.0 are assigned to $[Zn^{II}(Me_3-TACN)(CH_3COO)]^+$ (calcd m/z294.1), $[Zn^{II}(Me_3-TACN)(NO_3)]^+$ (calcd m/z 297.1), $[Zn^{II}(Me_3-TACN)(CH_3C(-NHO)O)]^+$ [Co^{II}(TBDAP)(CH₃COO)]⁺ (calcd m/z309.1), (calcd m/z470.2) and $[Co^{II}(TBDAP)(CH_3C(-NHO)O)]^+$ (calcd m/z 485.2), respectively. Compared to internal standard, the relative intensity of 1 and 4 changed from 20% and 23% to 7% and 48%, respectively.



Figure S21. DFT-calculated free energy profile (in kcal/mol) for the hydroxamate transfer reaction. In this particular mechanism, two water molecules are involved.

XYZ coordinates of DFT optimized geometries

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H H H	4.421415 6.093466 5.781995	-2.832440 -2.897553 -2.351260 -3.844944	1.444182 1.908661 2.153494 1.229484
H H H C	4.421415 6.093466 5.781995 6.717740	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964	1.444182 1.908661 2.153494 1.229484
H H H C	4.421415 6.093466 5.781995 6.717740	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964	1.444182 1.908661 2.153494 1.229484 -0.336834
H H C H	4.421415 6.093466 5.781995 6.717740 6.742439	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096
н Н С Н Н	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951
H H C H H C	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856
H H C H H C	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 0.170060	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403
H H C H H C H	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403
H H C H H C H H	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061
н Н С Н Н С Н Н	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061
H H C H H C H H H	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061
H H C H H C H H C H H C	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 = Int2 === 2.902044	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061
H H C H H C H H H C o	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 Int2 === 2.902044	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750	1.444182 1.908661 2.153494 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061
H H C H H C H H H C O O	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 = Int2 === 2.902044 2.689662	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250
H H C H H C H H C H H C O C O C	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 F Int2 === 2.902044 2.689662 5.997007	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 2.025897 -1.910421 0.641678	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433
H H H C H H C H H C O C H	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 • Int2 === 2.902044 2.689662 5.997007 5.837035	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421 0.641678 1159382	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520
H H H C H H C H H H C O O C H U	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 = Int2 === 2.902044 2.689662 5.997007 5.837935 6.752037	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 2.025897 -1.910421 0.641678 1.159382 0.127766	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520
H H C H H C H H C H H C O O C H H	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 F Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421 0.641678 1.159382 -0.137766	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520 4.496334
н н С н н С н н С о С о С н н н н	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 • Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421 0.641678 1.159382 -0.137766 1.357609	1,444182 1,908661 2,153494 1,229484 -0,336834 -1,397096 0,154951 -0,131856 0,935403 -0,658061 3,298113 1,154250 4,656433 3,697520 4,496334 5,359008
н н с н н с н н с н н с о с н н н с и н н с	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535	-2.832440 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 2.025897 -1.910421 0.641678 1.159382 -0.137766 -1.357609 -1.089723	1.444182 1.908661 2.153494 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520 4.496334 5.359008 4.159134
н н н с н н с н н С о о с н н н с н н с н н с н н с н н с н н с н н с	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 e Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535 3.419334	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421 0.641678 1.159382 -0.137766 1.357609 -1.089723 -1.651299	1.444182 1.908661 2.153494 1.229484 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520 4.496334 5.359008 4.159134 4.43859
н н н с н н с н н с о с н н н с и н с н н с н н с н н с н н с н н с и	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 F Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535 3.419234 5.12062	-2.897553 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 2.025897 -1.910421 0.641678 1.159382 -0.137766 1.357609 -1.089723 -1.651299 -1.922202	1,444182 1,908661 2,153494 1,229484 -0,336834 -1,397096 0,154951 -0,131856 0,935403 -0,658061 3,298113 1,154250 4,656433 3,697520 4,496334 5,359008 4,159134 4,438959
H H H C H H C O C H H H C H H H C H H C H H C H H C H H C H H C H H C H H C H H C H H H C H H C H H H C H H H H C H H H H H H H H C H	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535 3.419234 5.130853	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421 0.641678 1.159382 -0.137766 1.357609 -1.089723 -1.651299 -1.826300	1.444182 1.908661 2.153494 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520 4.496334 5.359008 4.159134 4.438959 4.109966
н н н С н н С н н С н н С н н С н н С н н С н н С н н С н н с н н С н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с н н н с н н с н н н н с н н н с н н н н н с н н н с н н н н н с н н с н н с н н н н н с н н н с н н н н н с н н н н н н с н н н н н с н н с н н н н н с н н с н н с н н н н н с н н н н н н н с н н н н н с н н н н н н н н с н	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 Fint2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535 3.419234 5.130853 4.171159	-2.897553 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -2.025897 -1.910421 0.641678 1.159382 -0.137766 1.357609 -1.089723 -1.651299 -1.826300 -0.666656	1.444182 1.908661 2.153494 -0.336834 -1.397096 0.154951 -0.131856 0.935403 -0.658061 3.298113 1.154250 4.656433 3.697520 4.496334 5.359008 4.159134 4.438959 4.109966 3.155043
н н н с н н с н н с н н с н н с н н с н н с н н с н н с н н с с н н с с н н с с н н с с н н с с н н с с н н с с н н с с с с с с	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 Fint2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535 3.419234 5.130853 4.171159 2.047157	-2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 -0.196750 -0.196750 -0.2025897 -1.910421 0.641678 1.159382 -0.137766 1.357609 -1.089723 -1.651299 -1.826300 -0.666656 3.209791	1,444182 1,908661 2,153494 1,229484 -0,336834 -1,397096 0,154951 -0,131856 0,935403 -0,658061 3,298113 1,154250 4,656433 3,697520 4,496334 5,359008 4,159134 4,438959 4,109966 3,155043 -0,175596
н н н с н н с н н с н н н с н н н с н н н с н н н с н н н с н н н с н н н с н н н с н н н с н	4.421415 6.093466 5.781995 6.717740 6.742439 7.429097 7.187738 7.377710 8.143156 E Int2 === 2.902044 2.689662 5.997007 5.837935 6.752975 6.439374 4.319535 3.419234 5.130853 4.171159 2.047157 2.870774	-2.897553 -2.897553 -2.351260 -3.844944 -1.788964 -2.063733 -2.465408 -0.353263 -0.170960 -0.196750 2.025897 -1.910421 0.641678 1.159382 -0.137766 1.357609 -1.089723 -1.651299 -1.826300 -0.666656 3.209791 3.864430	1,444182 1,908661 2,153494 -0,336834 -1,397096 0,154951 -0,131856 0,935403 -0,658061 3,298113 1,154250 4,656433 3,697520 4,496334 5,359008 4,159134 4,438959 4,109966 3,155043 -0,175596

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Н	4.079167	-1.257047	6.845786
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Ν	1.319209	2.324250	4.476257
N	1 861/155	3 038861	2 210604
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Ν	3.888087	3.607715	4.004007
N	3 610361	1 072807	5 202860
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	0.500270	-2.201102	2.070444
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С	0.936097	4.403339	3.279115
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C	3.899844	4./80590	3.351287
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	5.501011	6.400700	5.020521
Н	5.965598	6.488/32	5.413348
С	4.473362	3.462050	5.203557
C C	4.072425	2 249712	(00(204
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Н	4.869280	1.973472	6.706895
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11	5.230107	2.575150	0.044349
С	2.337645	0.551613	5.761265
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7.	4 02 20 41	0.507520	0 479 422
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Ν	3.772031	-0.560577	-1.642643
N	5 620/00	0.920169	0 023247
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С	4 238692	0 775915	-2.071271
ŭ	2.466672	1 407250	1.7(2227
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С	4.426013	1.104741	1.629895
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C	-0.531930	0.779606	1.818593
Н	-0.886862	1.478289	1.052574
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Н	-0.178019	2.941074	7.981101
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Н	4 820701	5 528842	3 294210
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Ĥ	6.625602	0.920781	3.357996
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11	5.445085	2.828138	3.381198
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11	1.042220	0.1(2022	5.075002
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т П	0.200500	0.445927	4 084050
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N	0.508402	2 252066	1 245976
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Ċ	1 743556	3 222001	1 530663
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н	-1./38440	-2./14/18	2.500983
Н	-1.946170	-4.288211	1.690923
Н	-2.566345	-2.823309	0 926950
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Zn	1.618963	-3.119508	-0.996042
Ν	1.306251	-3.455816	-3.133354
N	3 567642	2 388665	1 710160
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С	2.160345	-2.432405	-3.766376
н	1 681943	-1 458689	-3 577452
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Н	0.824000	-5.887069	-1.775561
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Н	2.731372	-4.805213	-3.921674
Н	1.071172	-5 318083	-4 134384
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Н	-0.443449	-2.2/614/	-3.184550
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C	3.862593	-1.040631	-1.208894
Н	3.703254	-1.013230	-0.126395
н	3 175846	-0 319534	-1 668113
ц	4 207255	0.744040	1 442242
п С	4.09/033	-0.744049	-1.442243
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Н	1.335975	-5.747582	0.460986
н	2 937008	-5 193954	0 99/669
11	2.757000	-3.173734	0.1/7009
Н	2.776059	-6.//3645	0.167874
С	4.023274	-4.827521	-1.380945
Н	4.217966	-5.095081	-2.426974
U	1 615600	5 500525	0.792442
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С	4.454117	-3.391097	-1.095578
Н	4.413973	-3.206902	-0.011370
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п	5.501/5/	-3.248101	-1.413310
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7n	2 345802	-0 295291	-2 602255
	2.545002	0.2/02/1	2.002233

Zn	2.345802	-0.295291	-2.602255
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Ν	3.786154	1.188793	-2.055237

Ν	3.961739	-1.400482	-3.400714
С	2.696369	2.105709	-4.117463
Н	1.834697	2.552884	-3.598100
Н	2.887908	2.723722	-5.009519
С	3 917936	2 127824	-3 210351
й	4 828291	1 885008	-3 769764
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U U	3.04/3/4	-1.555150	-4.833003
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С	3.328263	0.050492	-5.349995
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Н	2.978979	-0.013515	-6.389297
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С	3.532012	1.944081	-0.809490
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н	2 638807	2 568124	0.020220
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Н	3.083814	-3.302967	-3.070454
Н	4.341548	-2.830656	-1.887247
Н	4.809884	-3.360107	-3.516578
С	5.201076	-0.638708	-3.056653
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U U	2.060093	-1.100320	-0.381001
н	2.431/30	-1.935/05	-0.240028
		11 6 11 76 11	1 I I I I I I I I I I I I I I I I I I I
н	1./31440	-0.021309	0.192/32
н 0	0.457100	-0.021309	-2.805395
H O H	0.457100 0.036561	-0.621369 -1.171131 -1.630774	-2.805395 -2.061113
H O H H	0.457100 0.036561 -0.205604	-0.621369 -1.171131 -1.630774 -1.084633	-2.805395 -2.061113 -3.508392
н О Н Н	0.457100 0.036561 -0.205604	-0.021309 -1.171131 -1.630774 -1.084633	-2.805395 -2.061113 -3.508392
н О Н Н	0.457100 0.036561 -0.205604	-0.021309 -1.171131 -1.630774 -1.084633	-2.805395 -2.061113 -3.508392
н О Н Н ==== 1 Со	1.731446 0.457100 0.036561 -0.205604 (nt1' === 1.696861	-0.621369 -1.171131 -1.630774 -1.084633 1.032647	-2.805395 -2.061113 -3.508392
н О Н Н Ц	1.731446 0.457100 0.036561 -0.205604 (nt1' === 1.696861 1.112844	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029	-2.805395 -2.061113 -3.508392
н О Н Н ==== 1 Со О С	1.731446 0.457100 0.036561 -0.205604 (nt1' === 1.696861 1.112844 5.328818	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307	-2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391
H O H H Co O C H	1.731446 0.457100 0.036561 -0.205604 int1' === 1.696861 1.112844 5.328818 4.472177	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0 522363	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477
H O H H Co O C H H	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751	-0.021309 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 0.087346	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697
H O H H H Co O C H H H	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751	-0.021309 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.440697
н О Н Н Со О С Н Н Н Н	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661	-0.021309 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748
н О Н Н Со О С Н Н Н С С О С Н Н Н	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676	-0.021303 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 -2.00110
н О Н Н Со О С Н Н Н С С О С Н Н Н	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185	-0.821369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418
H O H H H C O O C H H H H C H H H	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412	$\begin{array}{c} -0.621369\\ -1.171131\\ -1.630774\\ -1.084633\\ \end{array}$	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943
н О Н Н Со О С Н Н Н Н С Н Н Н Н Н	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149	-0.021309 -1.171131 -1.630774 -1.084633 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684
H O H H C O O C H H H C H H H C	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424	$\begin{array}{c} -0.621569\\ -1.171131\\ -1.630774\\ -1.084633\\ \end{array}$ $\begin{array}{c} 1.032647\\ -0.768029\\ 0.647307\\ 0.522363\\ -0.087346\\ 1.639328\\ -1.072790\\ -1.367796\\ -1.707039\\ -1.302945\\ 0.226572\\ \end{array}$	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970
н О Н Н Со О С С Н Н Н С О С С Н Н Н Н С О С С Н Н Н С О О С С О С Н Н Н Н	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166	$\begin{array}{c} -0.621369\\ -1.171131\\ -1.630774\\ -1.084633\\ \end{array}$ $\begin{array}{c} 1.032647\\ -0.768029\\ 0.647307\\ 0.522363\\ -0.087346\\ 1.639328\\ -1.072790\\ -1.367796\\ -1.707039\\ -1.302945\\ 0.226572\\ 0.637877\\ \end{array}$	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.450697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036
п О Н Н Со О С Н Н Н С О С Н Н Н Н С О С Н Н Н Н Н	1.731446 0.457100 0.036561 -0.205604 int1' === 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192	-0.021309 -1.171131 -1.630774 -1.084633 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.025982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640
п О H H H Co O C H H H H C H H H H H H	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010	-0.621369 -1.171131 -1.630774 -1.084633 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837
п О Н Н —————————————————————————————————	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1735565	-0.021309 -1.171131 -1.630774 -1.084633 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.648377 -0.340519 -1.55921	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.103381
п О H H Н === 1 Со О С H H H C H H H C H H H N O	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.452676 4.452676 4.452676 4.452676 4.452676 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196	-0.021309 -1.171131 -1.630774 -1.084633 -1.084633 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204
п О Н Н === 1 Со О С Н Н Н С Н Н Н К С Н Н Н N О С	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196	-0.621369 -1.171131 -1.630774 -1.084633 -1.084633 -0.084633 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462 -0.289462	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.68204 6.261485
п О H H Н === 1 Со О С H H H C H H H C H H H N O C H	1.731446 0.457100 0.036561 -0.205604 intl' === 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 1.205167	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.204182	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.450697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.2013238
п О H H Н === 1 Со О С H H H C H H H C H H H N O C H C	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.224107	-0.021309 -1.171131 -1.630774 -1.084633 -1.084633 -0.087346 -0.647307 0.522363 -0.087346 -1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.26572 0.637877 -0.340519 -1.555921 -0.289462 3.326488 3.911223	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.261485 6.293228
п О H H ===] Со О С H H H C H H H C H H H N O C H C U	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107	-0.021369 -1.171131 -1.630774 -1.084633 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.261485 6.293228 1.184963 0.25721
п О H H ===1 Со О С H H H C H H H N O C H C H C H C H C H C H C H C H C H C	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107 1.250866	-0.021309 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284 5.292174	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.6488204 6.261485 6.293228 1.184963 0.535731
п О H H ===1 Со О С H H H C H H H C H H H N O C H C H C H C H C H C H C H C H C H C	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.387584 -1.305167 1.924107 1.250866 3.932580	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284 5.292174 4.597599	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.648337 2.102381 1.688204 6.291228 1.184963 0.535731 2.509069
п О H H === I Со О С H H H C H H H C H H H N O C H C H C H C H	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107 1.250866 3.932580 4.850994	$\begin{array}{c} -0.621369\\ -1.171131\\ -1.630774\\ -1.084633\\ \hline \\ 1.032647\\ -0.768029\\ 0.647307\\ 0.522363\\ -0.087346\\ 1.639328\\ -1.072790\\ -1.367796\\ -1.707039\\ -1.302945\\ 0.226572\\ 0.637877\\ -0.468377\\ -0.340519\\ -1.555921\\ -0.289462\\ 3.326488\\ 3.911223\\ 4.735284\\ 5.292174\\ 4.597599\\ 5.038603\\ \end{array}$	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.261485 6.293228 1.184963 0.535731 2.509069 2.893377
п О Н Н === 1 Со О С Н Н Н С Н Н Н К О С Н С Н С Н С Н С Н С Н С Н С Н С	$\begin{array}{c} 1.731446\\ 0.457100\\ 0.036561\\ -0.205604\\ \end{array}$ intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107 1.250866 3.932580 4.850994 6.062728\\ \end{array}	$\begin{array}{c} -0.621569\\ -1.171131\\ -1.630774\\ -1.084633\\ \hline\\ 1.032647\\ -0.768029\\ 0.647307\\ 0.522363\\ -0.087346\\ 1.639328\\ -1.072790\\ -1.367796\\ -1.302945\\ 0.226572\\ 0.637877\\ -0.340519\\ -1.555921\\ -0.289462\\ 3.326488\\ 3.911223\\ 4.735284\\ 5.292174\\ 4.597599\\ 5.038603\\ 0.584143\\ \end{array}$	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.450767 2.4507748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.293228 1.184963 0.535731 2.509069 2.893377 5.117859
п О Н Н ==] Со О С Н Н Н С Н Н Н Н N О С Н С Н С Н С Н С Н С Н С Н С Н С Н С	$\begin{array}{c} 1.731446\\ 0.457100\\ 0.036561\\ -0.205604\\ \end{array}$ intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107 1.250866 3.932580 4.850994 6.062728 6.413241\\ \end{array}	$\begin{array}{c} -0.621569\\ -1.171131\\ -1.630774\\ -1.084633\\ \hline \\ 1.032647\\ -0.768029\\ 0.647307\\ 0.522363\\ -0.087346\\ 1.639328\\ -1.072790\\ -1.367796\\ -1.707039\\ -1.302945\\ 0.226572\\ 0.637877\\ -0.468377\\ -0.468377\\ -0.340519\\ -1.555921\\ -0.289462\\ 3.326488\\ 3.911223\\ 4.735284\\ 5.292174\\ 4.597599\\ 5.038603\\ 0.584143\\ 1.621673\\ \end{array}$	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.261485 6.293228 1.184963 0.357571 2.509069 2.893377 5.117859 5.182854
п О H H == 1 Со О С H H H C H H H C H H H N O C H C H C H C H H	$\begin{array}{c} 1.731446\\ 0.457100\\ 0.036561\\ -0.205604\\ \end{array}$ $\begin{array}{c} nt1' == \\ 1.696861\\ 1.112844\\ 5.328818\\ 4.472177\\ 6.097751\\ 5.772661\\ 4.452676\\ 4.044185\\ 5.331412\\ 3.721149\\ -1.219424\\ -1.114166\\ -2.067192\\ -0.320010\\ 1.735565\\ 2.065196\\ -0.387584\\ -1.305167\\ 1.924107\\ 1.250866\\ 3.932580\\ 4.850994\\ 6.062728\\ 6.413241\\ 6.915871\\ \end{array}$	-0.021369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284 5.292174 4.597599 5.038603 0.584143 1.621673 -0.015029	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.261485 6.293228 1.184963 0.535731 2.509069 2.893377 5.117859 5.182854 4.776683
п О H H == 1 Со О С H H H C H H H C H H H N О С H C H C H C H H H	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107 1.250866 3.932580 4.850994 6.062728 6.413241 6.915871 5.822958	-0.021509 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284 5.292174 4.597599 5.038603 0.584143 1.621673 -0.015029 0.242335	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.688204 6.261485 6.293228 1.184963 0.535731 2.509069 2.893377 5.117859 5.182854 4.776683 6.132224
п О H H == 1 Со О С H H H C H H H C H H H N О С H C H C H H H C H H H C H H H C H C H	1.731446 0.457100 0.036561 -0.205604 intl'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.387584 -1.305167 1.924107 1.250866 3.932580 4.850994 6.062728 6.413241 6.915871 5.822958 1.311045	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284 5.292174 4.597599 5.038603 0.584143 1.621673 -0.015029 0.242335 -1.752760	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.643837 2.102381 1.68204 6.261485 6.293228 1.184963 0.535731 2.509069 2.893377 5.117859 5.182854 4.776683 6.132224 3.359180
п О H H == 1 Со О С H H H C H H H C H H H N O C H C H C H H H C N	1.731446 0.457100 0.036561 -0.205604 int1'=== 1.696861 1.112844 5.328818 4.472177 6.097751 5.772661 4.452676 4.452676 4.452676 4.452676 4.452676 4.044185 5.331412 3.721149 -1.219424 -1.114166 -2.067192 -0.320010 1.735565 2.065196 -0.387584 -1.305167 1.924107 1.250866 3.932580 4.850994 6.062728 6.413241 6.915871 5.822958 1.311045 1.191889	-0.621369 -1.171131 -1.630774 -1.084633 1.032647 -0.768029 0.647307 0.522363 -0.087346 1.639328 -1.072790 -1.367796 -1.707039 -1.302945 0.226572 0.637877 -0.468377 -0.468377 -0.340519 -1.555921 -0.289462 3.326488 3.911223 4.735284 5.292174 4.597599 5.038603 0.584143 1.621673 -0.015029 0.242335 -1.752760 2.070110	0.192732 -2.805395 -2.061113 -3.508392 3.307547 4.103811 2.713391 2.035477 2.440697 2.557748 4.225982 5.199418 4.054943 3.444684 1.376970 0.361036 1.346640 1.648337 2.102381 1.68204 6.291228 1.184963 0.535731 2.509069 2.893377 5.117859 5.182854 4.776683 6.132224 3.359180 5.021826

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 Co O C H H H C H H H C H H H C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.002344	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0 \$832001	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523
 Co O C H H H C H H H C H H H C U	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523
 Co O C H H H C H H H C H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217
Co O C H H H C H H C H H H C H H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321	$\begin{array}{c} 1.430161\\ -0.563400\\ 1.355453\\ 1.587398\\ 0.705126\\ 2.290689\\ -0.740878\\ -1.336354\\ -1.302128\\ -0.678740\\ 0.883901\\ 1.446407\\ 0.389518 \end{array}$	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678
Co O C H H H C H H H C H H H H H H H H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316
=== Co O C H H H C H H H C H H H H N	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380
=== Co O C H H H C H H H C H H H C H H H N O	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528 -1.855294	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096
=== Co O C H H H C H H H C H H H C H H H C H H H C C O C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528 -1.855294 2.750855	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935
=== Co O C H H H C H H H C H H H C H H H N O C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528 -1.855294 2.750855 3.280854	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730
Co O C H H H C H H H C H H H C H H H C H H H C C H H H C C H H H C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.66427	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528 -1.855294 2.750855 3.280854	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730
Со ОС Н Н Н С Н Н Н С Н Н Н N ОС Н С Н С	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204
Co O C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H H C H H H H C H H H H C H H H H H C H H H H H C H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176	$\begin{array}{c} 1.430161\\ -0.563400\\ 1.355453\\ 1.587398\\ 0.705126\\ 2.290689\\ -0.740878\\ -1.336354\\ -1.302128\\ -0.678740\\ 0.883901\\ 1.446407\\ 0.389518\\ 0.112231\\ -2.479528\\ -1.855294\\ 2.750855\\ 3.280854\\ 5.475247\\ 6.148711\end{array}$	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949
Co O C H H H C H H H C H H H N O C H C H H C H H C H H C C C C C C C C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998	$\begin{array}{c} 1.430161\\ -0.563400\\ 1.355453\\ 1.587398\\ 0.705126\\ 2.290689\\ -0.740878\\ -1.336354\\ -1.302128\\ -0.678740\\ 0.883901\\ 1.446407\\ 0.389518\\ 0.112231\\ -2.479528\\ -1.855294\\ 2.750855\\ 3.280854\\ 5.475247\\ 6.148711\\ 5.055049\end{array}$	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221
Co O C H H H C H H H C H H H N O C H C H C H C H H H C H H H C H C H H H C H C H H H C H C H H H C H C H H H C H C H H H C C H C C H C H C C H C C H C C H C C C H C C C C C H C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724	$\begin{array}{c} 1.430161\\ -0.563400\\ 1.355453\\ 1.587398\\ 0.705126\\ 2.290689\\ -0.740878\\ -1.336354\\ -1.302128\\ -0.678740\\ 0.883901\\ 1.446407\\ 0.389518\\ 0.112231\\ -2.479528\\ -1.855294\\ 2.750855\\ 3.280854\\ 5.475247\\ 6.148711\\ 5.055049\\ 5.398072\end{array}$	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053
Co O C H H H C H H H C H H H N O C H C H C H C H C H C H C H C H C H C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528 -1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996
Co O C H H H C H H H C H H H C H H H C H C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.48347 1.448938	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725
Co O C H H H C H H H C H H H C H H H C H H H C H C H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H H C H H H C H H H H C H H H C H H H H C H H H H H H H H C H H H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285	$\begin{array}{c} 1.430161\\ -0.563400\\ 1.355453\\ 1.587398\\ 0.705126\\ 2.290689\\ -0.740878\\ -1.336354\\ -1.302128\\ -0.678740\\ 0.883901\\ 1.446407\\ 0.389518\\ 0.112231\\ -2.479528\\ -1.855294\\ 2.750855\\ 3.280854\\ 5.475247\\ 6.148711\\ 5.055049\\ 5.398072\\ 0.488347\\ 1.448938\\ 0.036031\\ \end{array}$	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111
Co O C H H H C H H H C H H H C H H H C H H H C H C H C H H H C H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H C H H H C H H H H C H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 -1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347 1.448938 0.036031 0.0166428	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771
Co O C H H H C H H H C H H H C H H H C H C	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340 1.567662	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347 1.448938 0.036031 - 0.166428	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.7397711
Co O C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H C H H H C H H H C H H H H C H H H C H H H H C H H H C H H H C H H H H C H H H H C H H H H C H H H H C H H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340 1.567662 2.06562	1.430161 -0.563400 1.355453 1.587398 0.705126 2.290689 -0.740878 -1.336354 -1.302128 -0.678740 0.883901 1.446407 0.389518 0.112231 -2.479528 -1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347 1.448938 0.36031 -0.166428 -1.792314	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674
Co O C H H H C H H H C H H H C H H H C H H H C H C H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H C H H H C H H C H C H C H C H C H C H C H C H C H C H C H C H H H C C H C C H C C H C H C C H C C H C C H C C H C C H C C H C C H C C H C C H C C C H C C C H C C C C H C	$Int3' === 2.028672 \\ 1.368822 \\ 5.770369 \\ 5.239081 \\ 6.617516 \\ 6.197799 \\ 4.548417 \\ 3.904237 \\ 5.485219 \\ 4.076140 \\ 0.093344 \\ 0.770954 \\ -0.645321 \\ 0.673269 \\ 2.171763 \\ 2.730308 \\ -1.090231 \\ -2.031585 \\ 2.665437 \\ 2.231176 \\ 4.166998 \\ 4.914724 \\ 5.619721 \\ 5.805437 \\ 6.601285 \\ 5.095340 \\ 1.567662 \\ 0.919994 \\ \end{cases}$	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.48347 1.448938 0.036031 - 0.166428 - 1.792314 1.893659	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674 4.739943
Co O C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H C H C H H C H C H H H C H H H C H H H C H H H H C H H H H C H H H H C H H H H C H H H H C H H H H C H H H H H C H	$Int3' === 2.028672 \\ 1.368822 \\ 5.770369 \\ 5.239081 \\ 6.617516 \\ 6.197799 \\ 4.548417 \\ 3.904237 \\ 5.485219 \\ 4.076140 \\ 0.093344 \\ 0.770954 \\ -0.645321 \\ 0.673269 \\ 2.171763 \\ 2.730308 \\ -1.090231 \\ -2.031585 \\ 2.665437 \\ 2.231176 \\ 4.166998 \\ 4.914724 \\ 5.619721 \\ 5.805437 \\ 6.601285 \\ 5.095340 \\ 1.567662 \\ 0.919994 \\ 0.308980 \\ \end{cases}$	$\begin{array}{c} 1.430161\\ -0.563400\\ 1.355453\\ 1.587398\\ 0.705126\\ 2.290689\\ -0.740878\\ -1.336354\\ -1.302128\\ -0.678740\\ 0.883901\\ 1.446407\\ 0.389518\\ 0.112231\\ -2.479528\\ -1.855294\\ 2.750855\\ 3.280854\\ 5.475247\\ 6.148711\\ 5.055049\\ 5.398072\\ 0.488347\\ 1.448938\\ 0.036031\\ -0.166428\\ -1.792314\\ 1.893659\\ 2.573678\end{array}$	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674 4.739943 2.104882
Co O C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H C H C H H C H C H H H H C H H H H C H H H H C H H H H C H H H H H C H H H H H C H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340 1.567662 0.919994 0.308980 2.726729	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347 1.448938 0.036031 - 0.166428 - 1.792314 1.83659 2.573678 3.352903	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674 4.739943 2.104882 3.021091
Co O C H H H H C H H H H C H H H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340 1.567662 0.919994 0.308980 2.726729 3.576918	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347 1.448938 0.036031 - 0.166428 - 1.792314 1.893659 2.573678 3.352903 1.438666	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674 4.739943 2.104882 3.021091 4.875749
Co O C H H H H C H H H H C H H H H C H H H H C H H H H H C H H H H H C H H H H H C H H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340 1.567662 0.919994 0.308980 2.726729 3.576918 -0.671665	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.488347 1.448938 0.036031 - 0.166428 - 1.792314 1.893659 2.573678 3.352903 1.438666	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674 4.739943 2.104882 3.021091 4.875749 1.243174
Co O C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H C H H H C H H H H C H H H H C H H H H C H H H H C H H H H H C H H H H C H H H H H C H H H H C H H H H H C H	Int3' === 2.028672 1.368822 5.770369 5.239081 6.617516 6.197799 4.548417 3.904237 5.485219 4.076140 0.093344 0.770954 -0.645321 0.673269 2.171763 2.730308 -1.090231 -2.031585 2.665437 2.231176 4.166998 4.914724 5.619721 5.805437 6.601285 5.095340 1.567662 0.919994 0.308980 2.726729 3.576918 -0.671665 1.083218	1.430161 - 0.563400 1.355453 1.587398 0.705126 2.290689 - 0.740878 - 1.336354 - 1.302128 - 0.678740 0.883901 1.446407 0.389518 0.112231 - 2.479528 - 1.855294 2.750855 3.280854 5.475247 6.148711 5.055049 5.398072 0.48347 1.448938 0.036031 - 0.166428 - 1.792314 1.893659 2.573678 3.352903 1.438666 1.779823	3.091645 3.003963 3.703118 2.770354 3.454601 4.082581 4.150513 4.811017 4.041879 3.161201 0.267523 -0.387217 -0.380678 0.791316 2.072380 0.979096 5.644935 5.511730 1.971204 1.234949 3.814221 4.527053 6.032996 6.530725 5.845111 6.739771 3.045674 4.739943 2.104882 3.021091 4.875749 1.243174 4.193381

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H H C H	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567
H H C H H	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567
н Н С Н Н	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599
H H C H H H C	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162
H H C H H H C	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162
H H C H H C H	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951
н Н С Н Н Н С Н Н	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951 -1.245083
H H C H H H C H H H H	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252 5.644402	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951 -1.245083 -1.245083
Н Н С Н Н Н Н Н Н Н Н Н	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688 5.058739	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252 -5.644403	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951 -1.245083 -1.514722
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H H H H H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H C H H H H C H H H H C H	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688 5.058739 3.404205	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252 -5.644403 -4.075916	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951 -1.245083 -1.514722 -3.059957 -2.612315
н Н Н С Н Н Н С Н Н Н С Н Н Н С Н Н Н С Н Н С Н Н С Н Н С Н Н С Н Н С Н Н С Н Н С С Н Н Н С С Н Н Н С С Н Н Н С С Н Н С С Н С С Н Н С С Н С Н С С Н С С Н С С Н С С Н С С Н С С Н С С Н С С Н С С С Н С С С С С Н С	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688 5.058739 3.404205 2.635530	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252 -5.644403 -4.075916 -4.628147	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.129553 -1.056162 0.024951 -1.245083 -1.514722 -3.059957 -3.612315
нн Сннн Сннн Сннн Сннн Сннн Сннн	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688 5.058739 3.404205 2.635530 4.364162	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252 -5.644403 -4.075916 -4.628147 -4.423965	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951 -1.245083 -1.514722 -3.059957 -3.612315 -3.464923
нн нн нн нн нн нн е нн е нн е нн е нн	-0.348375 -0.512177 0.148971 -1.320736 2.156620 3.051758 1.270903 2.176929 4.641790 4.555386 5.325688 5.058739 3.404205 2.635530 4.364162 3.278927	-4.053242 -3.088079 -4.727561 -4.485726 -0.510837 -0.149371 -0.104005 -0.144930 -4.735761 -4.889594 -3.900252 -5.644403 -4.075916 -4.628147 -4.423965	0.130978 0.628481 0.838690 -0.147274 -2.650385 -2.129553 -2.148567 -3.687599 -1.056162 0.024951 -1.245083 -1.514722 -3.059957 -3.612315 -3.464923 -3.300595

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H Co O C	5.384173 Int4' === 1.836091 -0.280112 5.140639	-0.219370 1.165170 -3.461639 1.363638	3.403391 -0.392374 1.690676
H Co O C H	5.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853	-0.219370 1.165170 -3.461639 1.363638 1.467310	3.403391 -0.392374 1.690676 1.263209
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H Co O C H H H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.259799	3.403391 -0.392374 1.690676 1.263209 0.975280
H Co O C H H H	5.384173 Int4 ² === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129
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H ==== Co O C H H H C H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143	-0.219370 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446
H ==== Co O C H H H C H H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.429107	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 1.208785	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557
H Co O C H H H C H H H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.428197	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 -1.298785	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557
H Co O C H H H C H H H H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.428197 3.723646	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 -1.298785 -0.850221	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557 2.136022
H Co O C H H H C H H H C	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.428197 3.723646 -1.513548	-0.219370 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 -1.298785 -0.850221 0.663277	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557 2.136022 2.079081
H Co O C H H H C H H H C H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.428197 3.723646 -1.513548 -1.656249	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 -1.298785 -0.850221 0.663277 1.384199	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557 2.136022 2.079081 1.264261
H Co O C H H H C H H H C H H H H H H H H H H H H H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.428197 3.723646 -1.513548 -1.656249 2.255547	-0.219370 1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 -1.298785 -0.850221 0.663277 1.384199 0.02(071)	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557 2.136022 2.079081 1.264261 2.007004
H Co O C H H H C H H H C H H H H C H H H H H H H H H H H H H	3.384173 Int4' === 1.836091 -0.280112 5.140639 4.134853 5.761030 5.592632 4.667771 4.599143 5.428197 3.723646 -1.513548 -1.656249 -2.355647	-0.219370 -1.165170 -3.461639 1.363638 1.467310 0.808744 2.358788 -0.831722 -1.474656 -1.298785 -0.850221 0.663277 1.384199 -0.036971	3.403391 -0.392374 1.690676 1.263209 0.975280 1.776129 2.699344 3.588446 2.059557 2.136022 2.079081 1.264261 2.007994

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н	-1 202238	1 022543	1 338108
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н		-0.159/42	2.101896
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Н	-2.246570	-0.306275	2.335098
H	-2.246570 -0.506262	-0.306275	2.335098
H C	-2.246570 -0.506262 0.725497	-0.306275 2.204484	2.335098 7.397739
H C H	-2.246570 -0.506262 0.725497 -0.135078	-0.306275 2.204484 2.670993	2.335098 7.397739 7.873631
H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957	-0.306275 2.204484 2.670993 5.261697	2.335098 7.397739 7.873631 2.411490
H C H C	-2.246570 -0.506262 0.725497 -0.135078 1.376957	-0.306275 2.204484 2.670993 5.261697	2.335098 7.397739 7.873631 2.411490
H C H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700	-0.306275 2.204484 2.670993 5.261697 5.899268	2.335098 7.397739 7.873631 2.411490 2.114430
H C H C H C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764
H C H C H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.160754
H C H C H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754
H C H C H C H C H C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805
H C H C H C H C H C H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718
H C H C H C H C H C H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718
H C H C H C H C H C H C H C H C H C H C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259
H C H C H C H C H C H H H H H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496
H C H C H C H C H C H H H H H H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496
H C H C H C H C H C H H H H N	$\begin{array}{c} -2.246570\\ -0.506262\\ 0.725497\\ -0.135078\\ 1.376957\\ 0.546700\\ 3.699859\\ 4.697161\\ 6.466922\\ 6.844648\\ 7.177105\\ 6.508346\\ 1.831509\end{array}$	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813
H H C H C H C H C H H H H N N	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382
H H C H C H C H C H C H H H N N N	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163
H C H C H C H C H H H N N N N	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163
H C H C H C H C H H H N N N N	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685	$\begin{array}{c} 2.335098\\ 7.397739\\ 7.873631\\ 2.411490\\ 2.114430\\ 3.004764\\ 3.169754\\ 3.619805\\ 3.990718\\ 2.858259\\ 4.441496\\ 5.440813\\ 3.703382\\ 3.074163\\ 3.950311 \end{array}$
H C H C H C H C H H H N N N N C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.282276	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454
H C H C H C H C H H H N N N N C C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.285685 1.2852276	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454
H C H C H C H C H H H N N N C C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842	$\begin{array}{c} -0.306275\\ 2.204484\\ 2.670993\\ 5.261697\\ 5.899268\\ 4.963763\\ 5.367274\\ 0.514616\\ 1.476285\\ 0.170441\\ -0.210779\\ 1.470308\\ 2.142298\\ 3.140855\\ 1.285685\\ 1.252276\\ 1.123260\end{array}$	$\begin{array}{c} 2.335098\\ 7.397739\\ 7.873631\\ 2.411490\\ 2.114430\\ 3.004764\\ 3.169754\\ 3.619805\\ 3.990718\\ 2.858259\\ 4.441496\\ 5.440813\\ 3.703382\\ 3.074163\\ 3.950311\\ 3.517454\\ 6.136918 \end{array}$
H C H C H C H C H H H N N N N C C C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.252276 1.123260 1.255730	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731
H C H C H C H C H H H N N N N C C C C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.820272	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.123260 1.255730 0.980104	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.699718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088270
H C H C H C H C H H H N N N N C C C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.123260 1.255730 0.980194	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970
H C H C H C H C H H H N N N N C C C H C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.285685 1.285685 1.223276 1.123260 1.255730 0.980194 1.765522	$\begin{array}{c} 2.335098\\ 7.397739\\ 7.873631\\ 2.411490\\ 2.114430\\ 3.004764\\ 3.169754\\ 3.619805\\ 3.990718\\ 2.858259\\ 4.441496\\ 5.440813\\ 3.703382\\ 3.074163\\ 3.950311\\ 3.517454\\ 6.136918\\ 7.518731\\ 8.088970\\ 8.151938\end{array}$
нснснснсннни и и и ссснсн	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099 1.792935	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.123260 1.255730 0.980194 1.765522 1.861784	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9 235404
H C H C H C H C H H H N N N N C C C H C H	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099 1.792935 0.7844444	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.123260 1.255730 0.980194 1.765522 1.861784	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9.235404 6.015220
нснснснсннни мимссснснс	$\begin{array}{c} -2.2465 \ / 0 \\ -0.506262 \\ 0.725497 \\ -0.135078 \\ 1.376957 \\ 0.546700 \\ 3.699859 \\ 4.697161 \\ 6.466922 \\ 6.844648 \\ 7.177105 \\ 6.508346 \\ 1.831509 \\ -0.229482 \\ 2.194712 \\ 4.076121 \\ -1.465641 \\ 2.920842 \\ 2.944421 \\ 3.829373 \\ 1.811099 \\ 1.792935 \\ 0.784446 \end{array}$	$\begin{array}{c} -0.306275\\ 2.204484\\ 2.670993\\ 5.261697\\ 5.899268\\ 4.963763\\ 5.367274\\ 0.514616\\ 1.476285\\ 0.170441\\ -0.210779\\ 1.470308\\ 2.142298\\ 3.140855\\ 1.285685\\ 1.285685\\ 1.285685\\ 1.285685\\ 1.225730\\ 0.980194\\ 1.765522\\ 1.861784\\ 2.069332\end{array}$	$\begin{array}{c} 2.335098\\ 7.397739\\ 7.873631\\ 2.411490\\ 2.114430\\ 3.004764\\ 3.169754\\ 3.619805\\ 3.990718\\ 2.858259\\ 4.441496\\ 5.440813\\ 3.703382\\ 3.074163\\ 3.950311\\ 3.517454\\ 6.136918\\ 7.518731\\ 8.088970\\ 8.151938\\ 9.235404\\ 6.015339\end{array}$
НС Н С Н С Н С Н Н Н N N N N C C C H C H C C	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099 1.792935 0.784446 -0.191958	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.123260 1.255730 0.980194 1.765522 1.861784 2.069332 2.728959	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9.235404 6.015339 5.072590
нснснснсннни и и и ссснснсси	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099 1.792935 0.784446 -0.191958	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.255276 1.123260 1.255730 0.980194 1.765522 1.861784 2.029332 2.728959	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9.235404 6.015339 5.072590 5.510520
нснснснсннни и и и ссснснссн	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.94421 3.829373 1.811099 1.792935 0.784446 -0.191958 -1.192360	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.252276 1.255730 0.980194 1.765522 1.861784 2.069332 2.728959 2.782360	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9.235404 6.015339 5.072590 5.519520
НС Н С Н С Н Н Н Н И И И И С С С Н С Н С	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099 1.792935 0.784446 -0.191958 -1.192360 0.137998	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.285685 1.252276 1.123260 1.255730 0.980194 1.765522 1.861784 2.069332 2.728959 2.782360 3.775836	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.169754 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9.235404 6.015339 5.072590 5.519520 4.990214
НСНСНСНСНННИ МИМСССНСНССННС	-2.246570 -0.506262 0.725497 -0.135078 1.376957 0.546700 3.699859 4.697161 6.466922 6.844648 7.177105 6.508346 1.831509 -0.229482 2.194712 4.076121 -1.465641 2.920842 2.944421 3.829373 1.811099 1.792935 0.784446 -0.191958 -1.192360 0.137998 -0.176254	-0.306275 2.204484 2.670993 5.261697 5.899268 4.963763 5.367274 0.514616 1.476285 0.170441 -0.210779 1.470308 2.142298 3.140855 1.252276 1.123260 1.255730 0.980194 1.765522 1.861784 2.069332 2.728959 2.782360 3.775836 3.239859	2.335098 7.397739 7.873631 2.411490 2.114430 3.004764 3.619805 3.990718 2.858259 4.441496 5.440813 3.703382 3.074163 3.950311 3.517454 6.136918 7.518731 8.088970 8.151938 9.235404 6.015339 5.072590 5.519520 4.990214 2.698202

Н	-0.960467	3.992726	2.875662
Н	-0.375118	2.809800	1.708334
С	1.171622	3.919574	2.700740
С	2.670377	5.771086	2.527674
Н	2.865930	6.814327	2.288444
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С	4.353267	2.743056	4.076737
Н	5.398457	2.980495	3.842598
Н	4.228359	3.027443	5.132681
С	4.095371	0.667015	5.305281
Н	5.027463	0.900700	5.844310
Н	4.071366	-0.424283	5.190747
С	5.074218	0.616209	2.997100
С	-1.563278	0.280145	4.692021
Н	-0.633764	-0.287300	4.826222
Н	-2.359603	-0.445074	4.487080
Н	-1.817902	0.761851	5.643356
С	-2.747752	2.080248	3.430535
Н	-2.869096	2.775777	4.271108
Н	-3.612944	1.406652	3.451975
Н	-2.815355	2.652513	2.497320
0	1.519077	-0.951384	3.659916
Н	1.303196	-1.318309	4.531772
Н	2.074118	-1.608190	3.209498
0	1.778996	0.731114	1.304383
Н	1.987221	1.428388	0.663113
Н	1.128010	0.149015	0.881354