

Electronic Supplementary Information

Synthesis and biological evaluation of coprinoferrin, an acylated tripeptide hydroxamate siderophore

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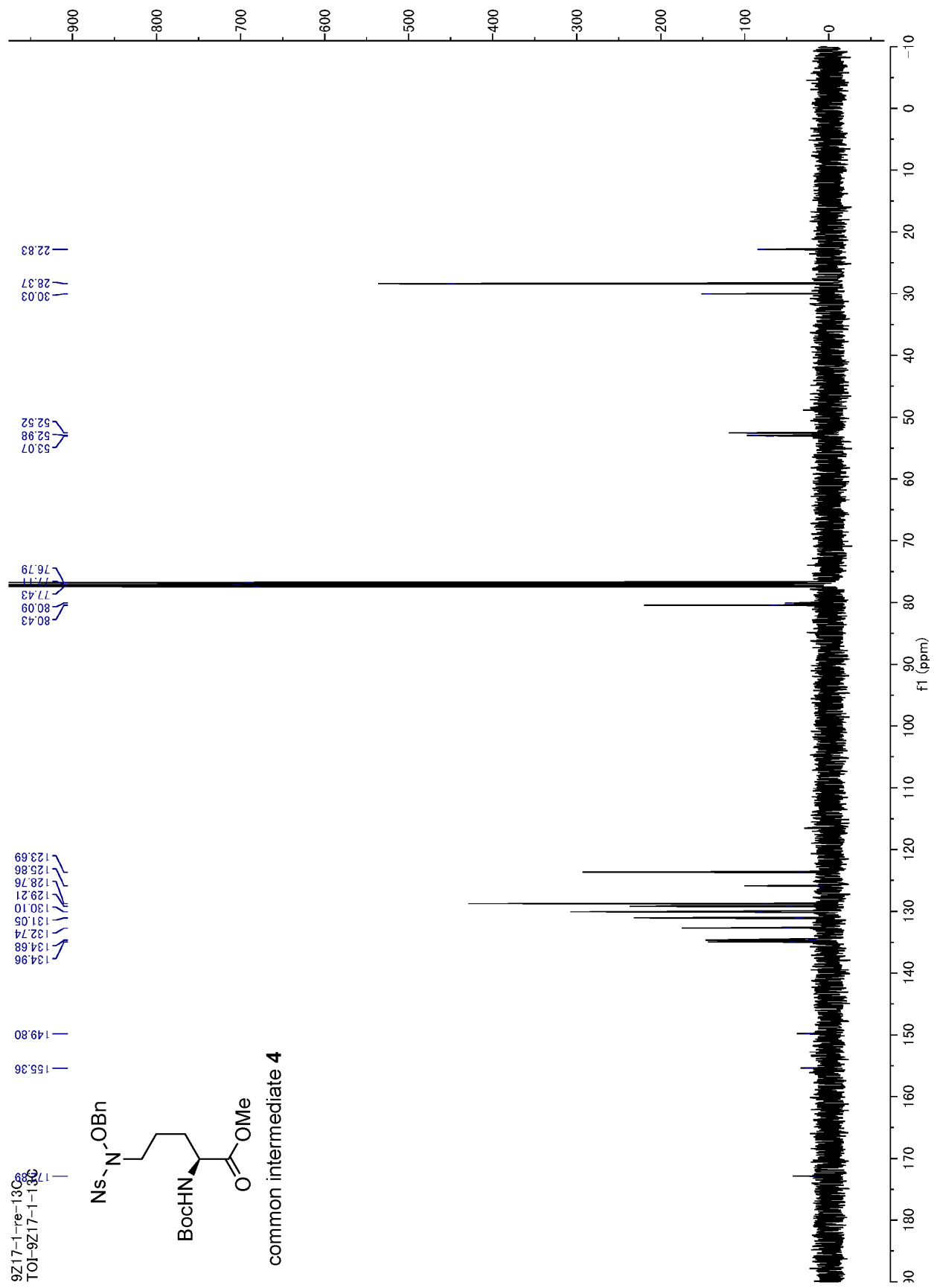
E-mail: kenji55@u-shizuoka-ken.ac.jp

^d. Graduate School of Bioagricultural Sciences, Nagoya University, Furo-cho, Chikusa, Nagoya, Aichi, 464-8601, Japan

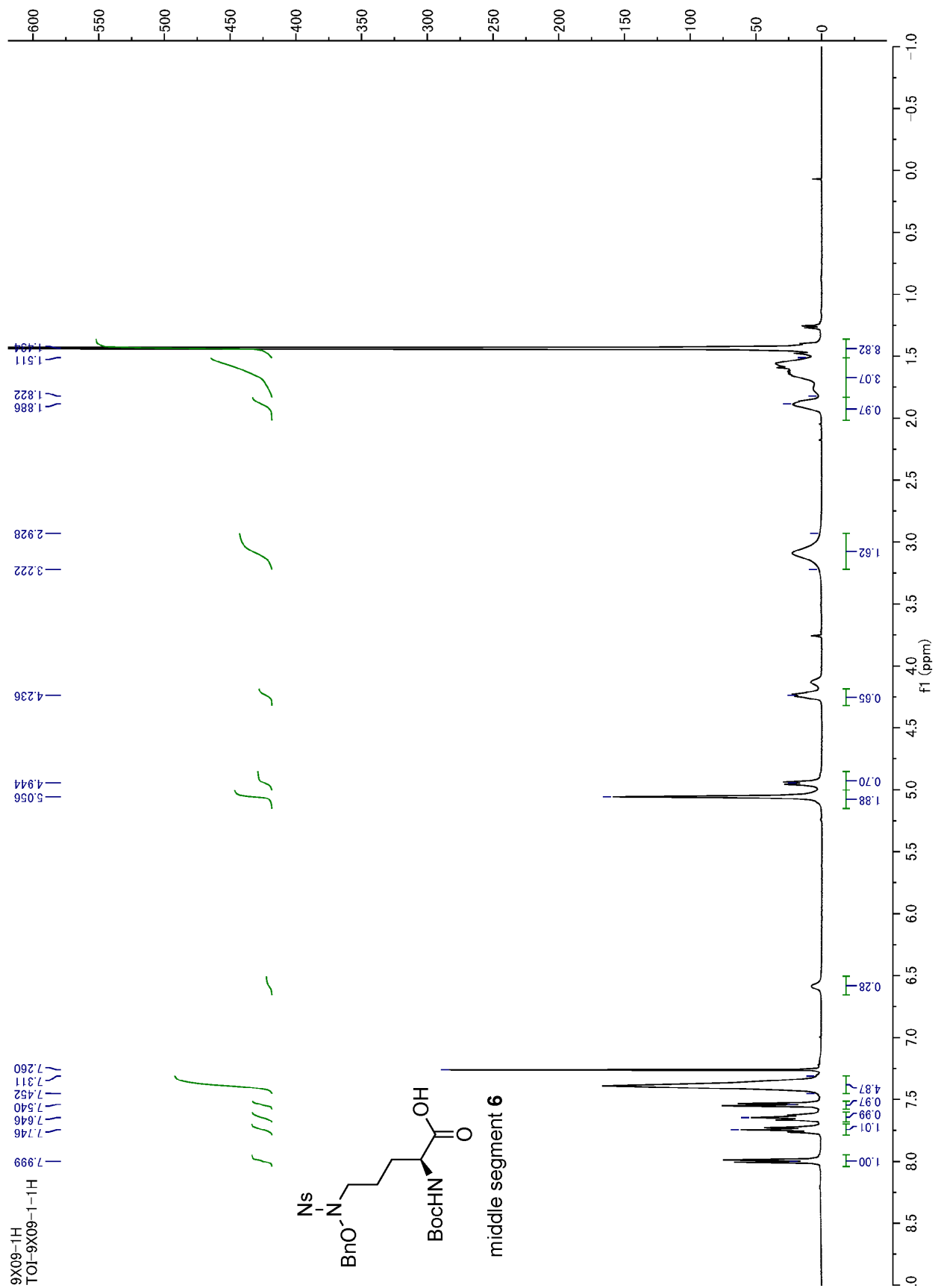
E-mail: tsune@agr.nagoya-u.ac.jp

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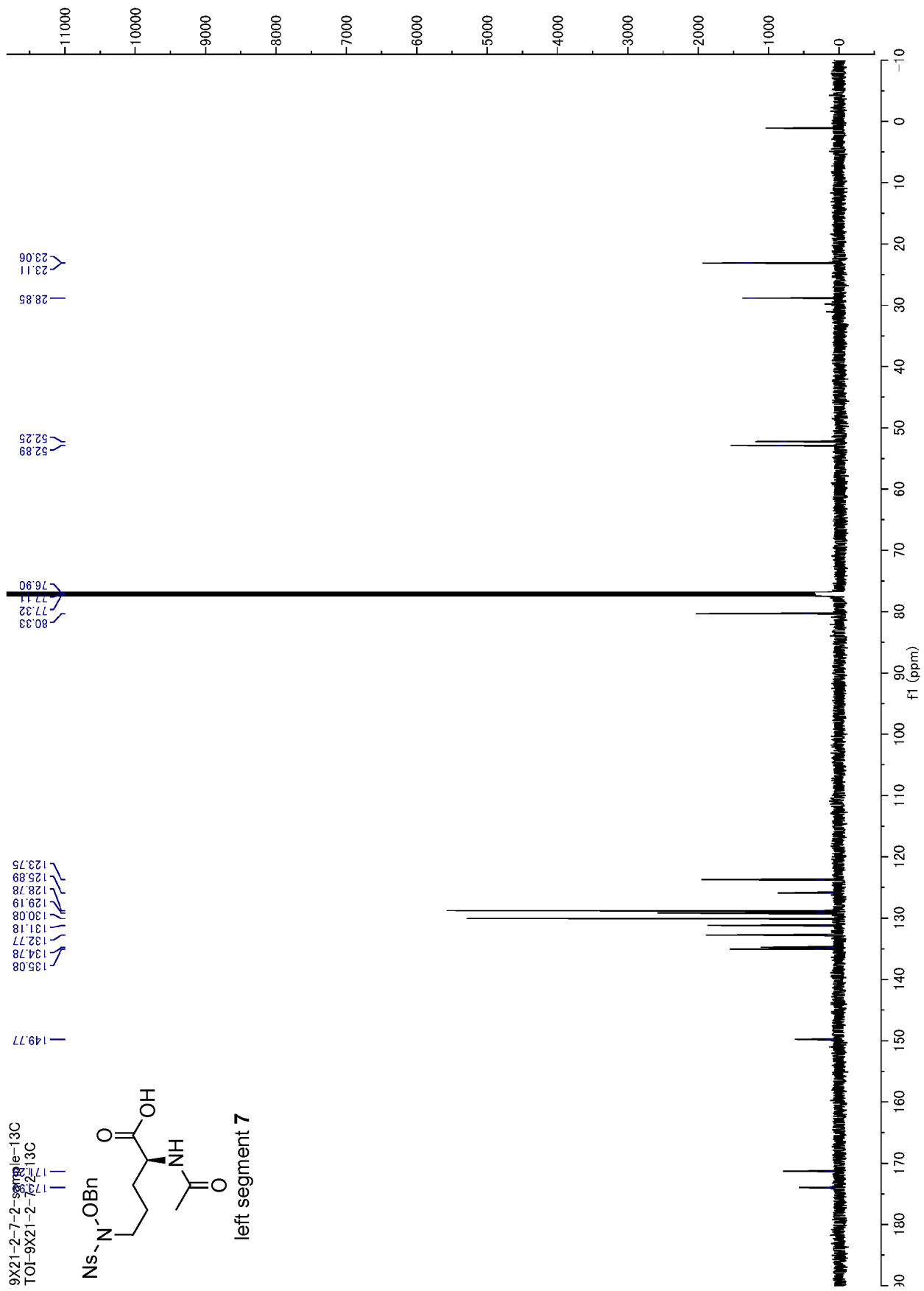
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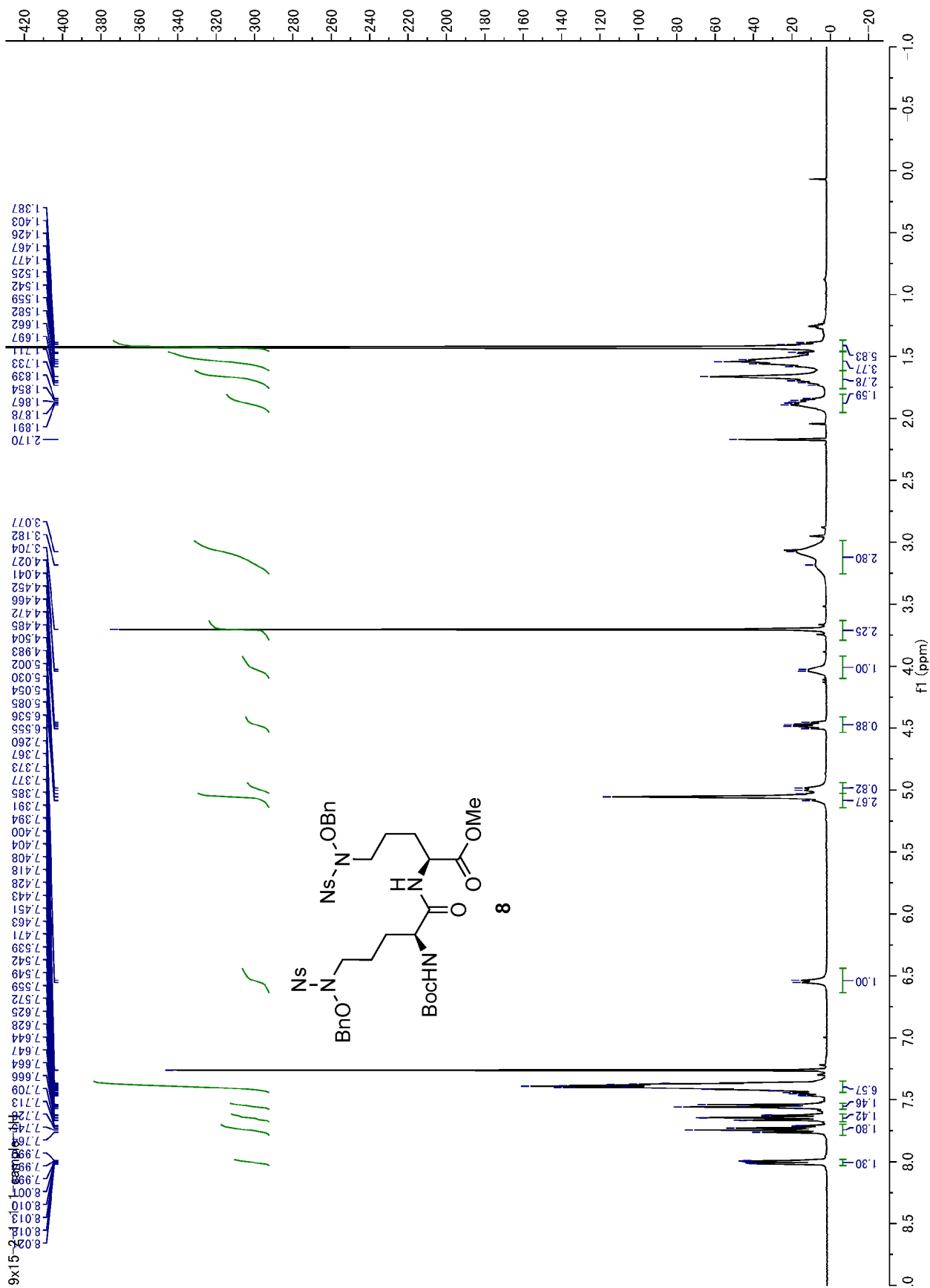
¹³C NMR spectra of common intermediate 4 (100 MHz, CDCl₃)



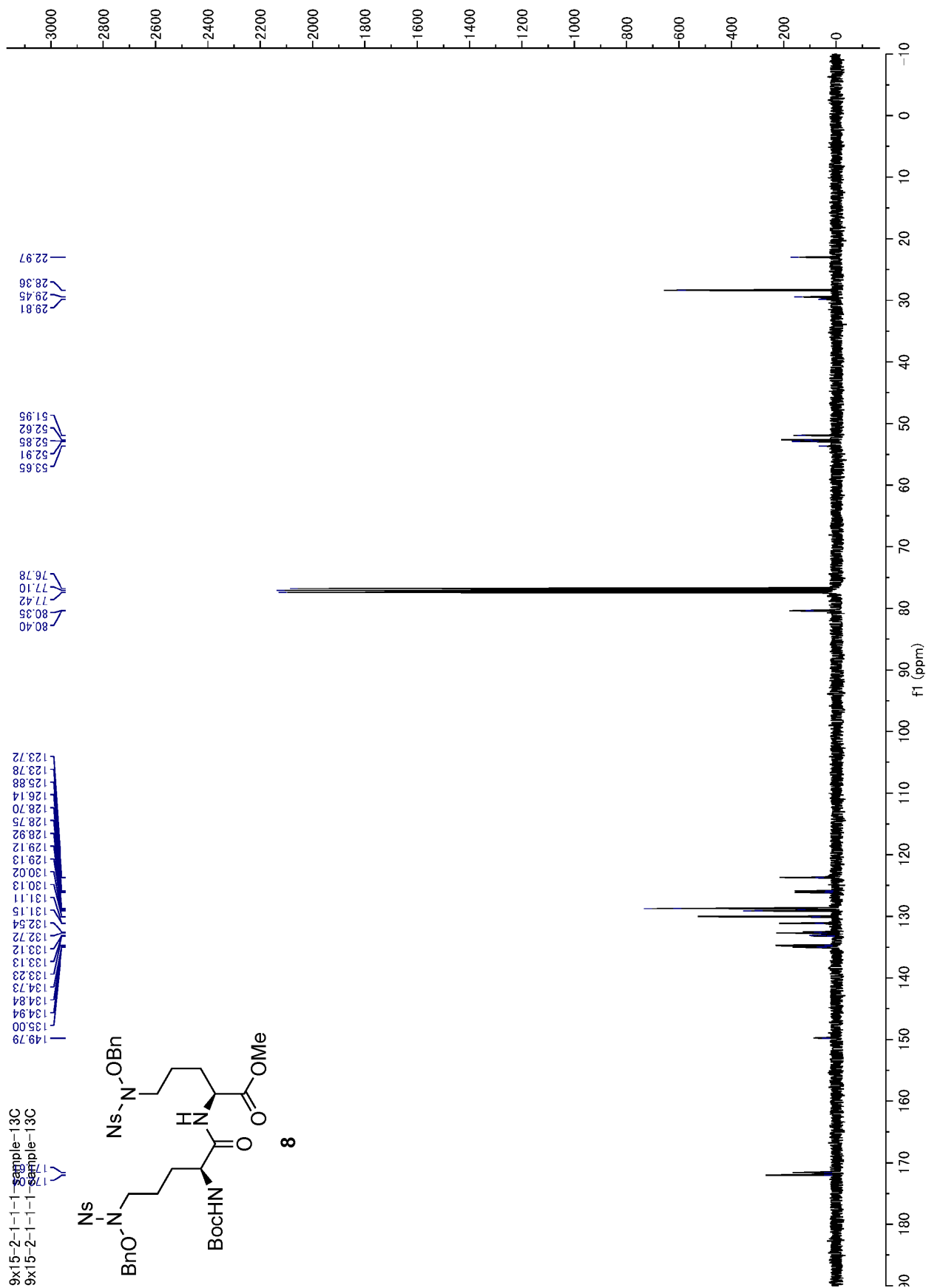
^1H NMR spectra of middle segment **6** (400 MHz, CDCl_3)



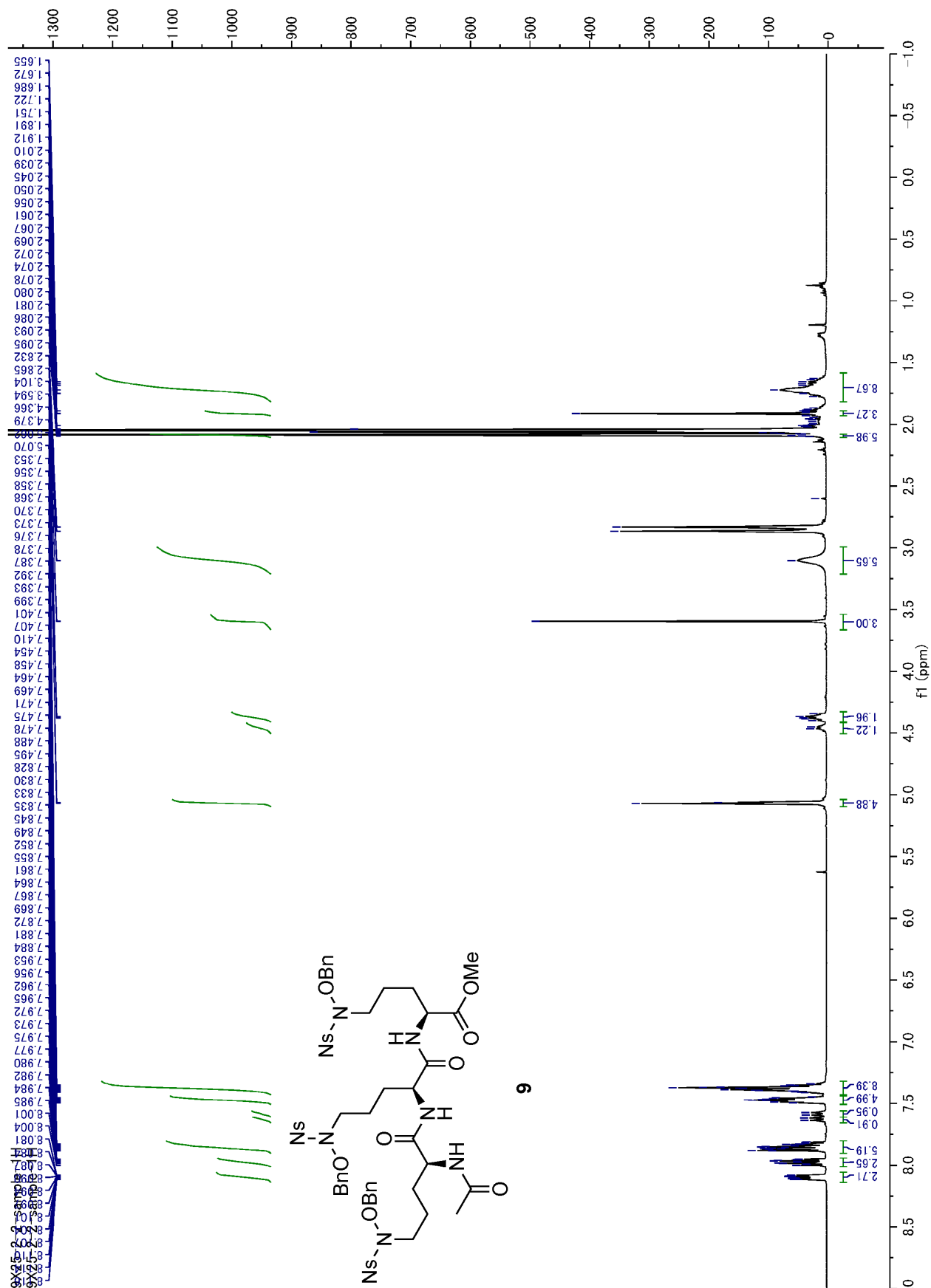
^{13}C NMR spectra of left segment 7 (150 MHz, CDCl_3)



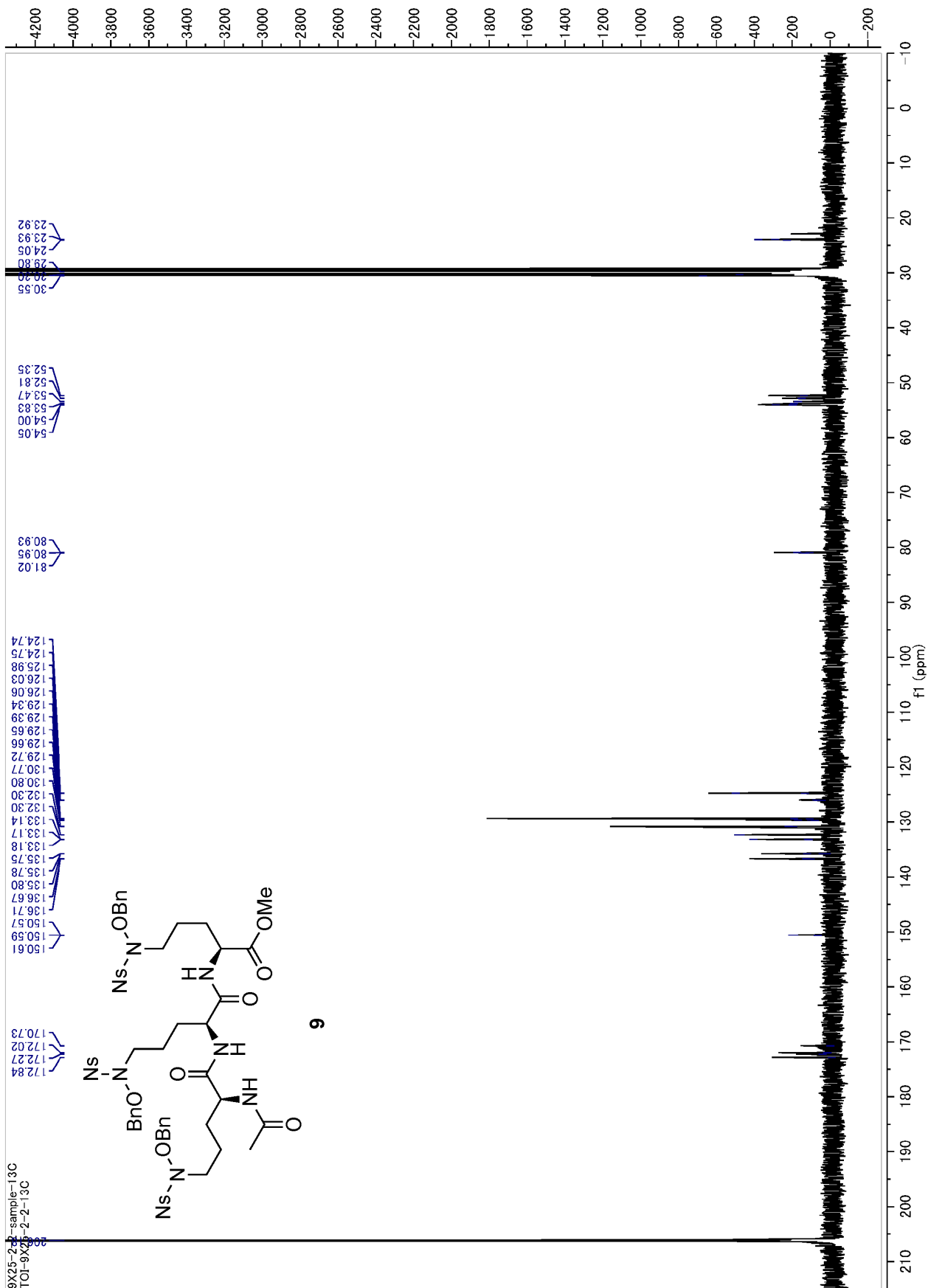
^1H NMR spectra of **8** (400 MHz, CDCl_3)



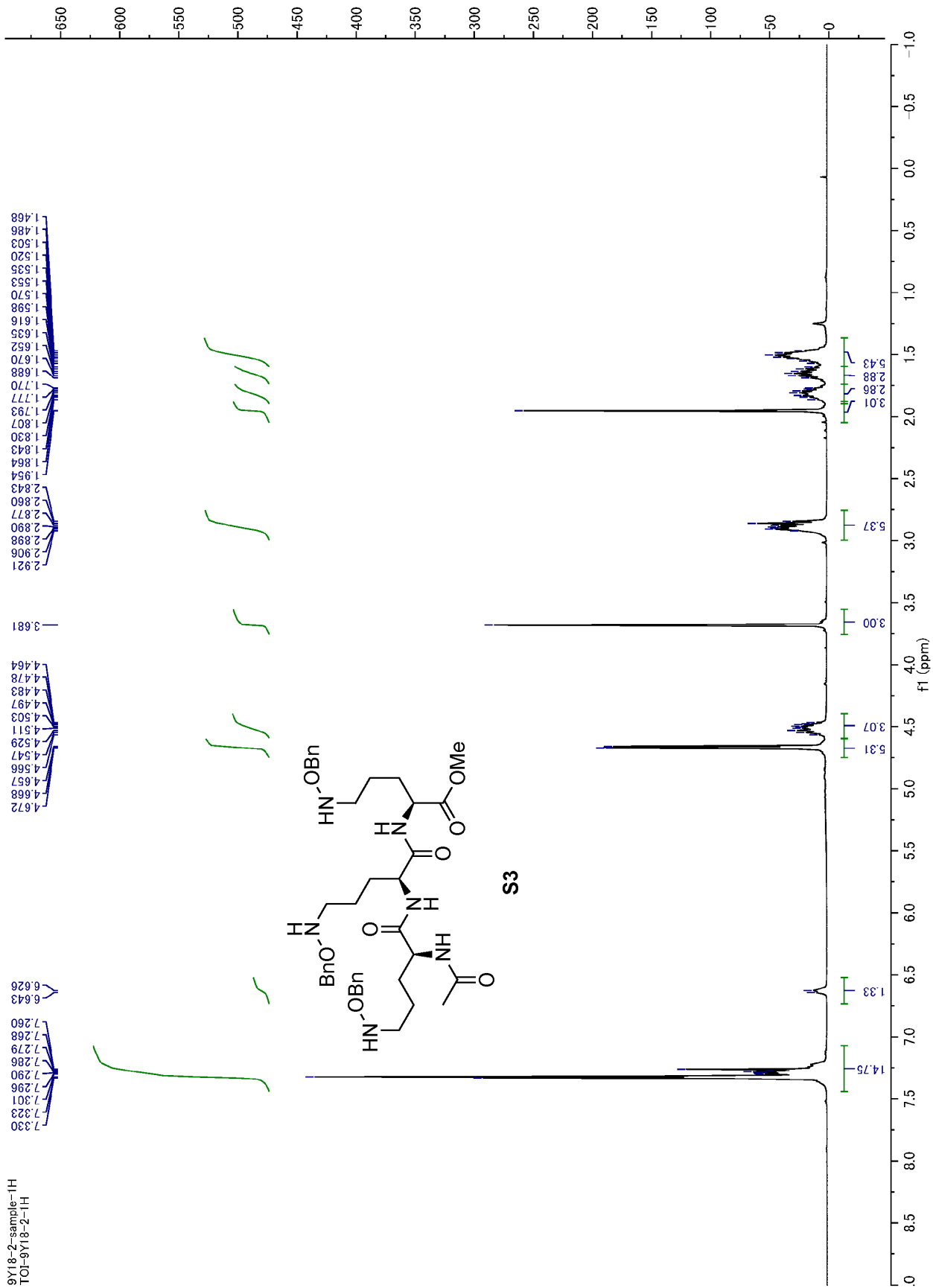
^{13}C NMR spectra of **8** (100 MHz, CDCl_3)



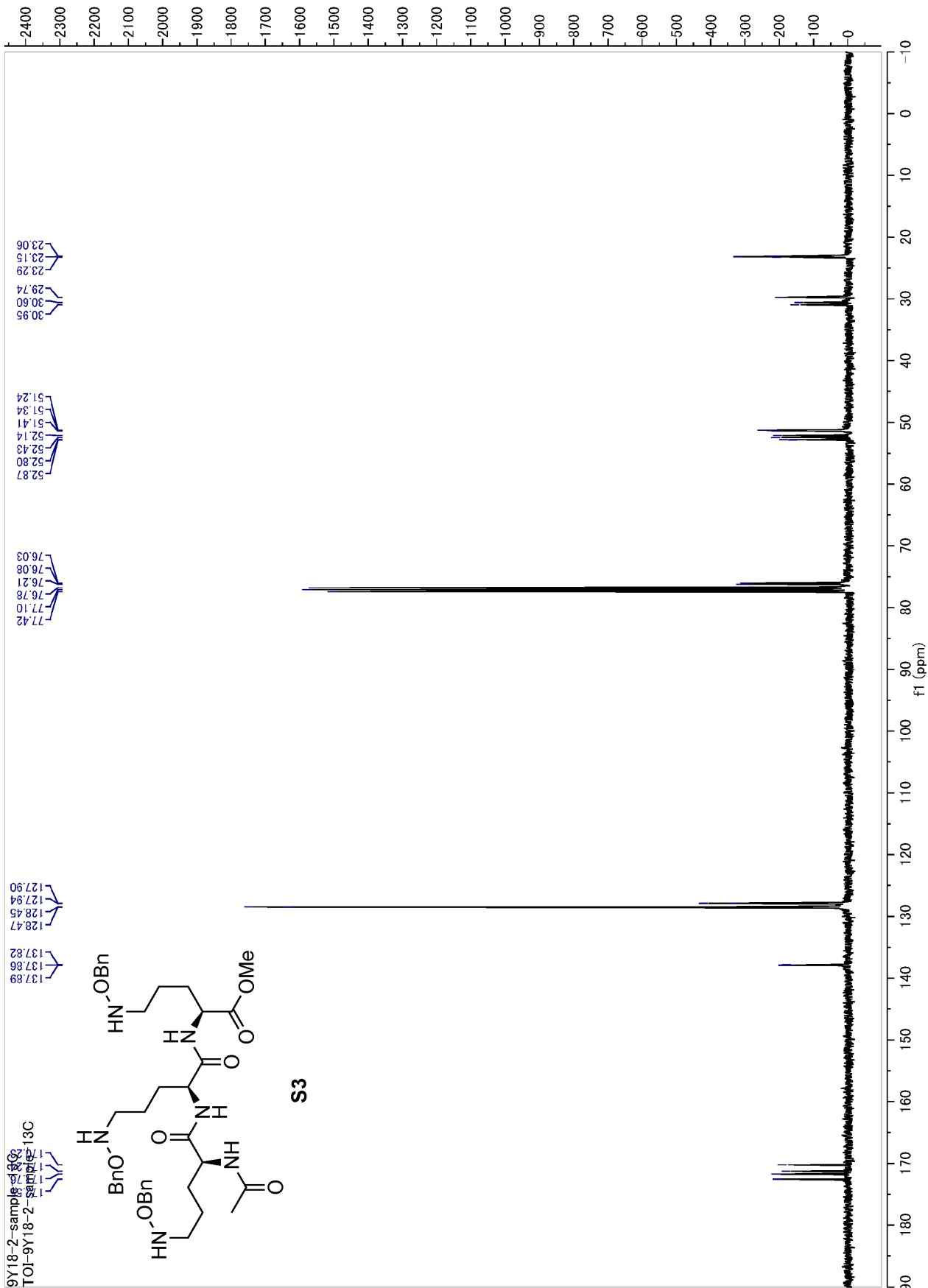
^1H NMR spectra of **9** (400 MHz, $\text{acetone-}d_6$)



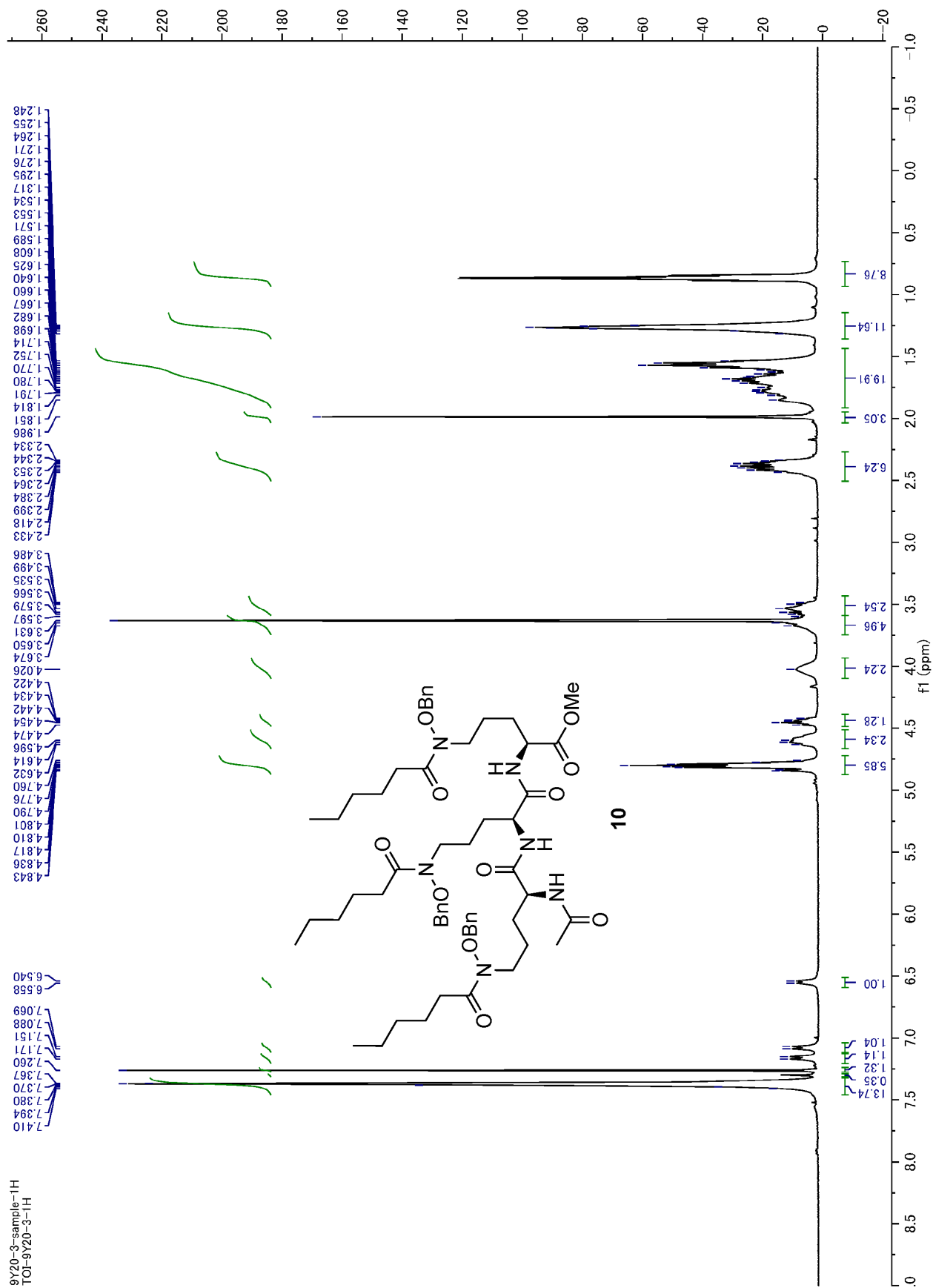
¹³C NMR spectra of **9** (100 MHz, acetone-*d*₆)



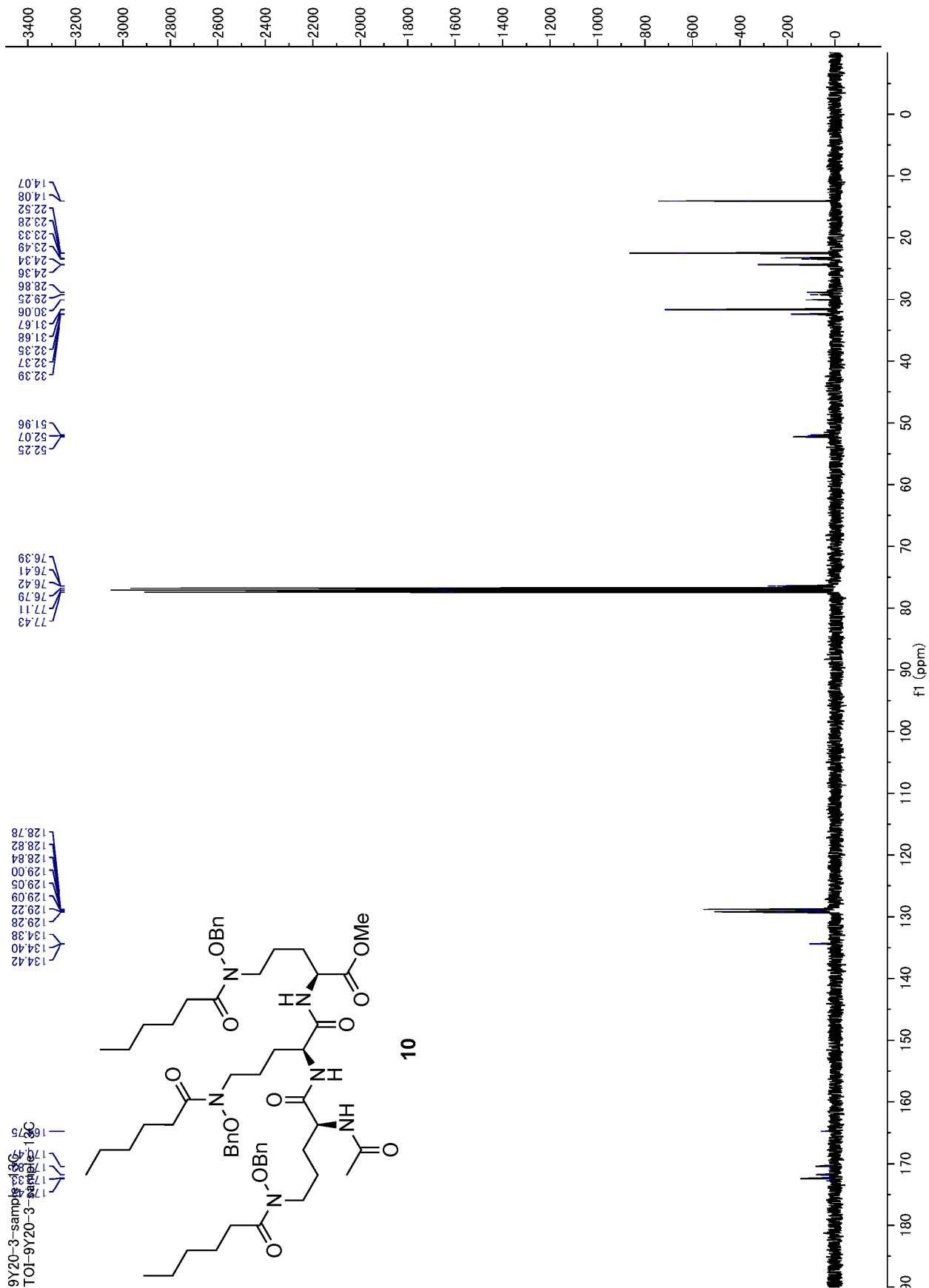
¹H NMR spectra of S3 (400 MHz, CDCl₃)



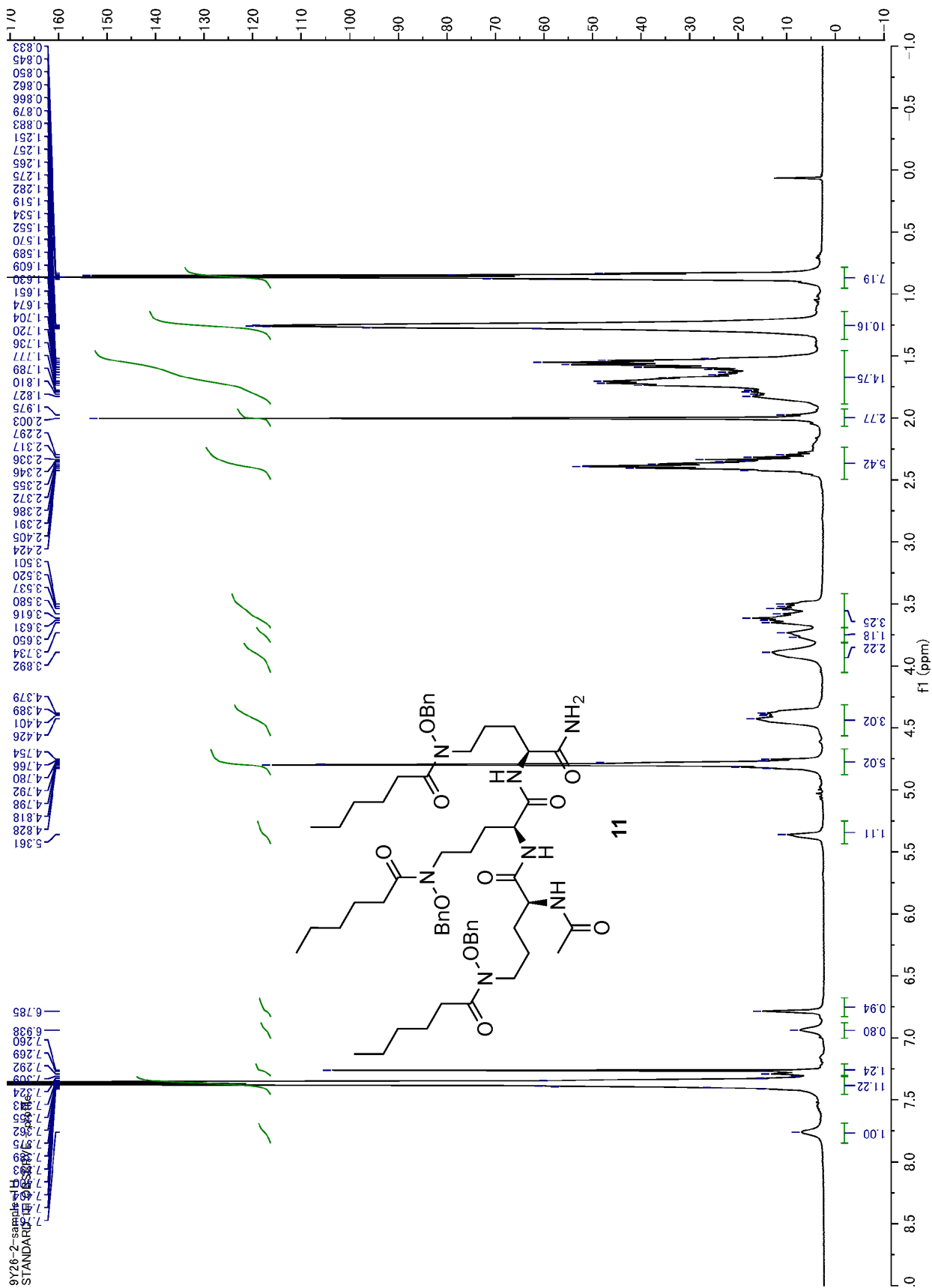
¹³C NMR spectra of **S3** (100 MHz, CDCl₃)



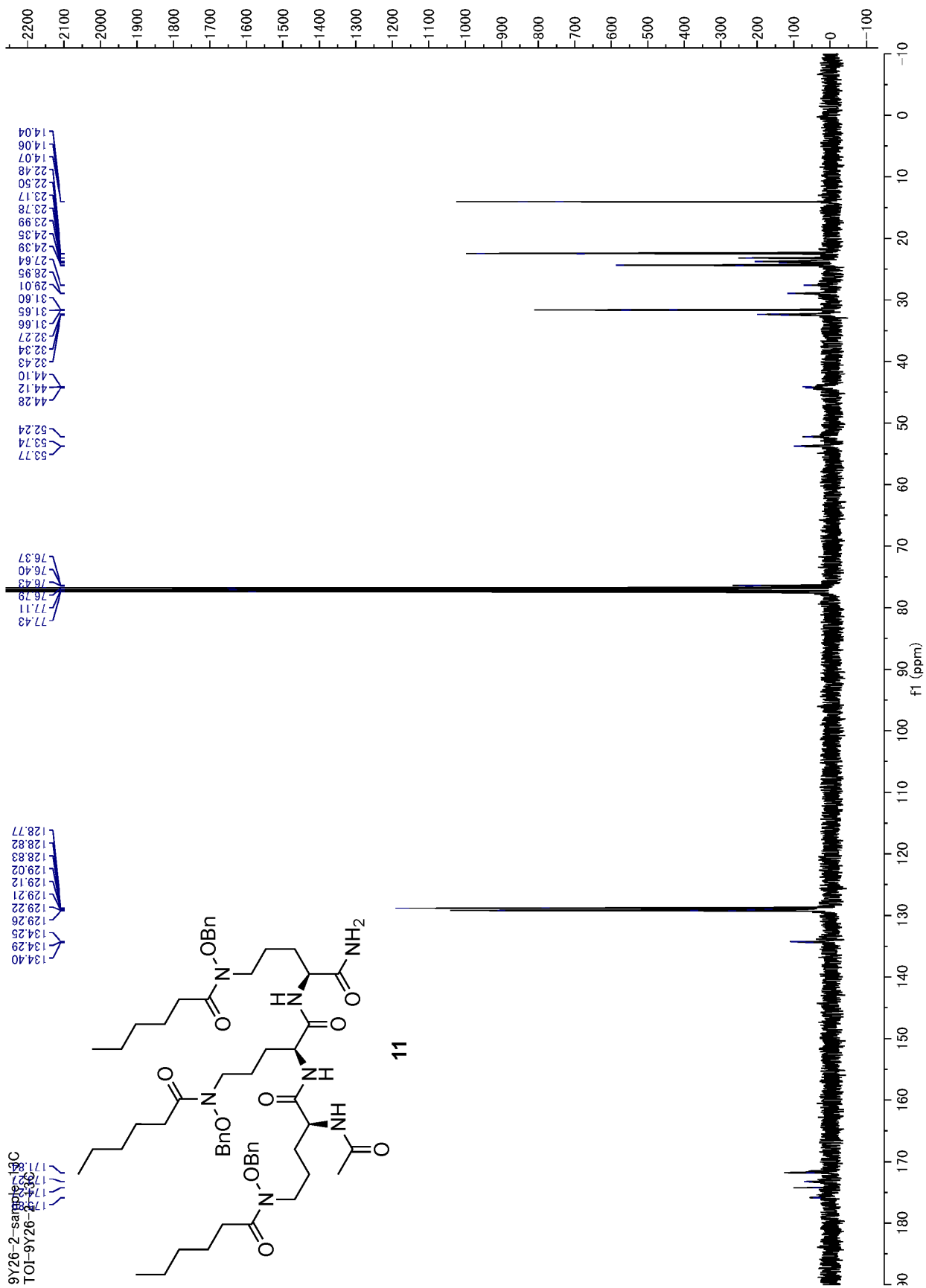
¹H NMR spectra of **10** (400 MHz, CDCl₃)



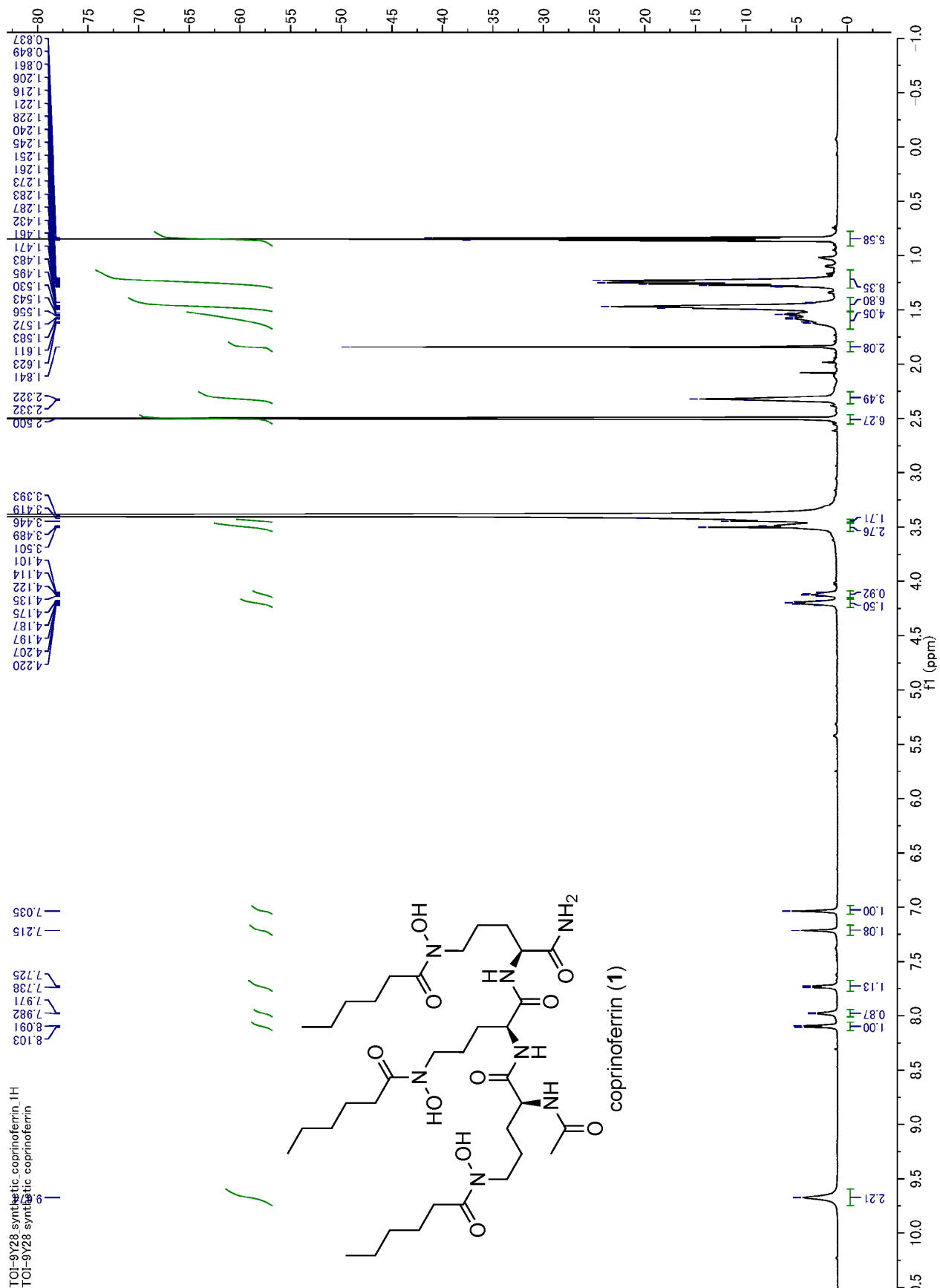
^{13}C NMR spectra of **10** (100 MHz, CDCl_3)



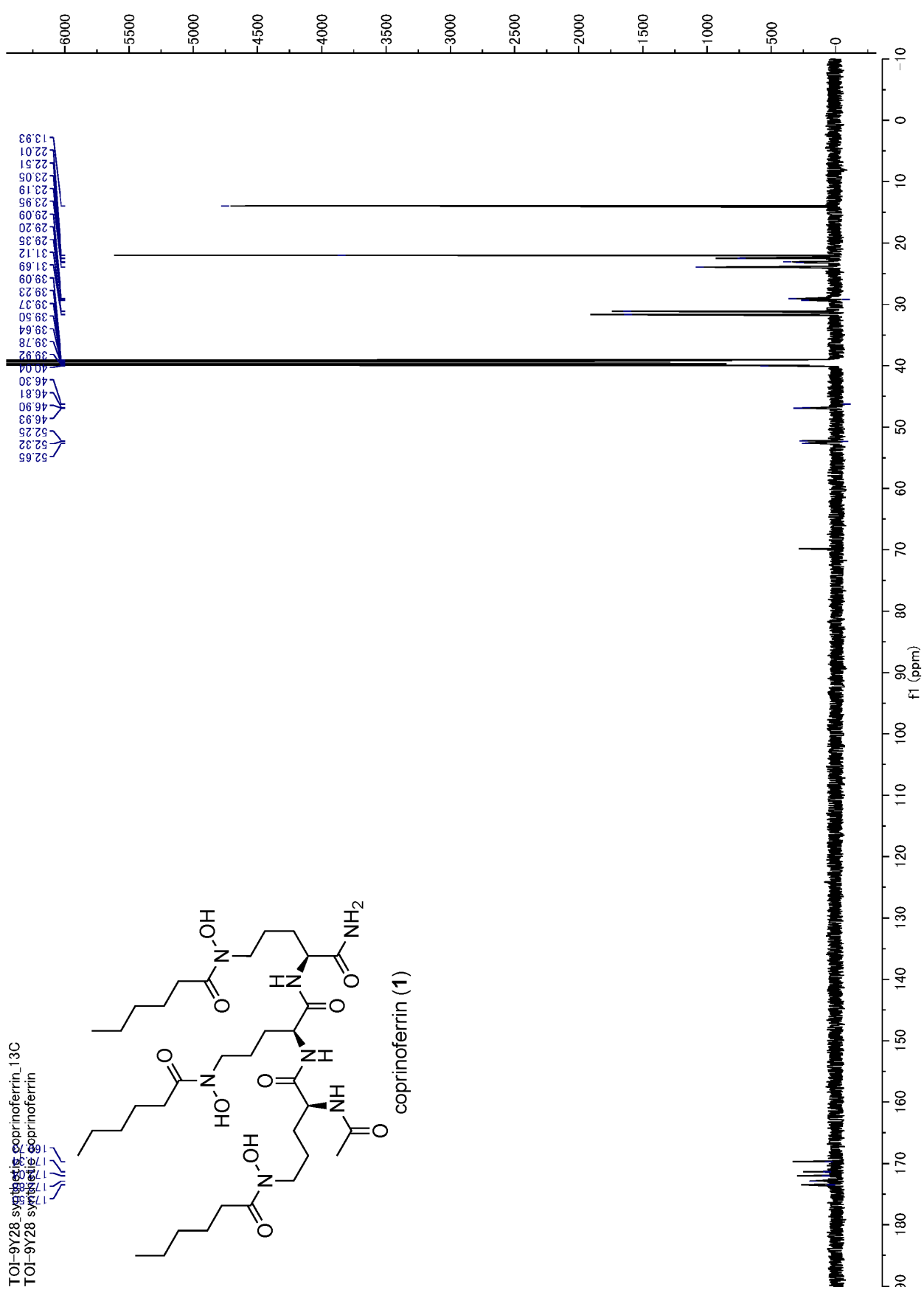
^1H NMR spectra of **11** (400 MHz, CDCl_3)



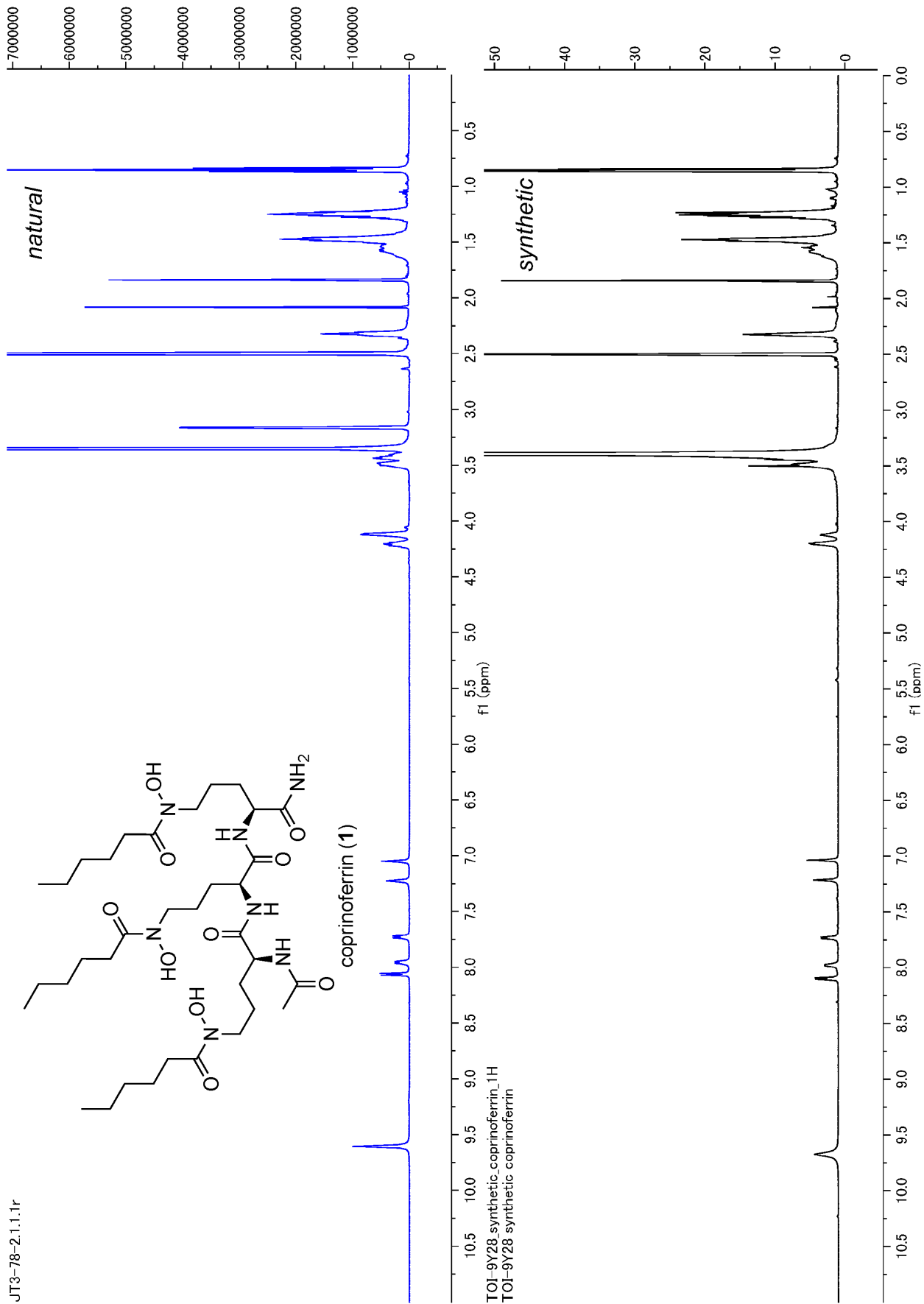
¹³C NMR spectra of **11** (100 MHz, CDCl₃)



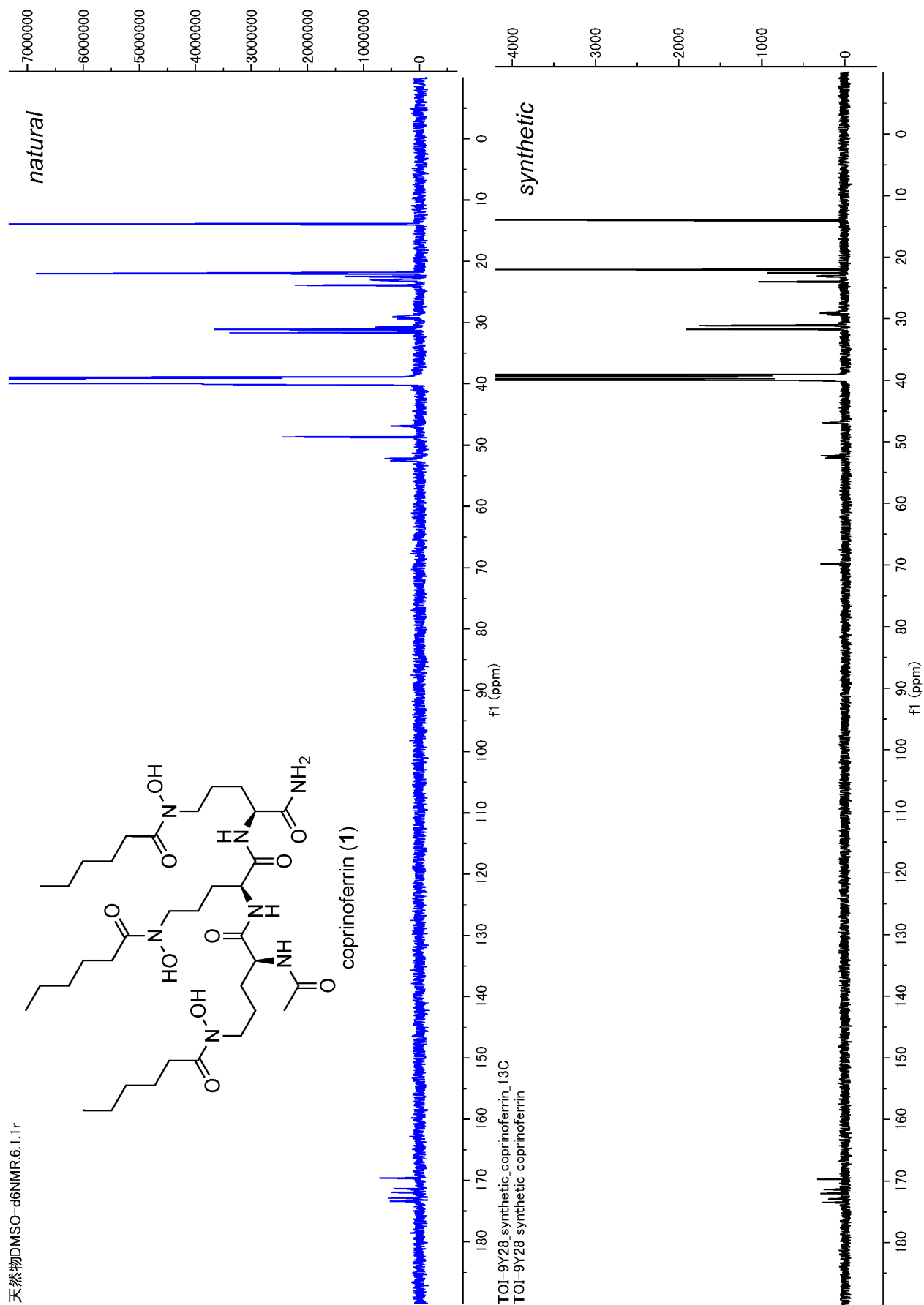
^1H NMR spectra of coprinoferrin (1) (600 MHz, $\text{DMSO-}d_6$)



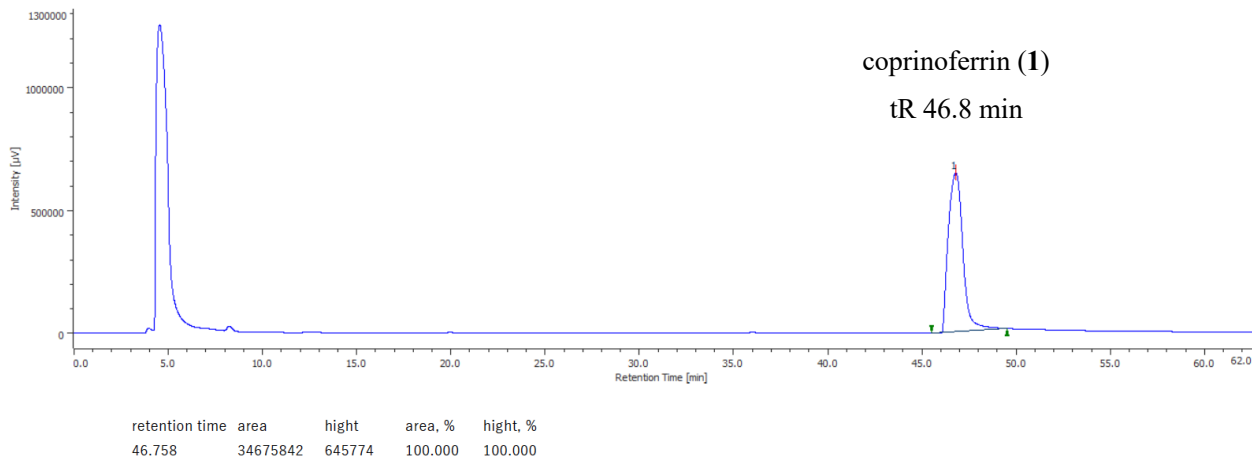
¹³C NMR spectra of coprinoferrin (1) (150 MHz, DMSO-d₆)



^1H NMR spectra of coprinoferrin (**1**) [upper: natural product (500 MHz, $\text{DMSO-}d_6$); lower: synthetic sample (600 MHz, $\text{DMSO-}d_6$)]



¹H NMR spectra of coprinoferrin (1) [upper: natural product (125 MHz, DMSO-*d*₆); lower: synthetic sample (150 MHz, DMSO-*d*₆)]



Preparative HPLC chart of synthetic coprinoferrin (1): column: nacalai teque COSMOSIL 5C₁₈-MS-II (φ20×250 mm), solvent: 35% MeCN aq., detection: UV 215 nm; flow rate 11.0 ml/min