

Supporting Information

SYNTHESIS AND EVALUATION OF DENDROAMIDE A AND THREE REGIOISOMERIC ANALOGS HAVING A REVERSED AZOLE RING AS P-GLYCOPROTEIN INHIBITORS

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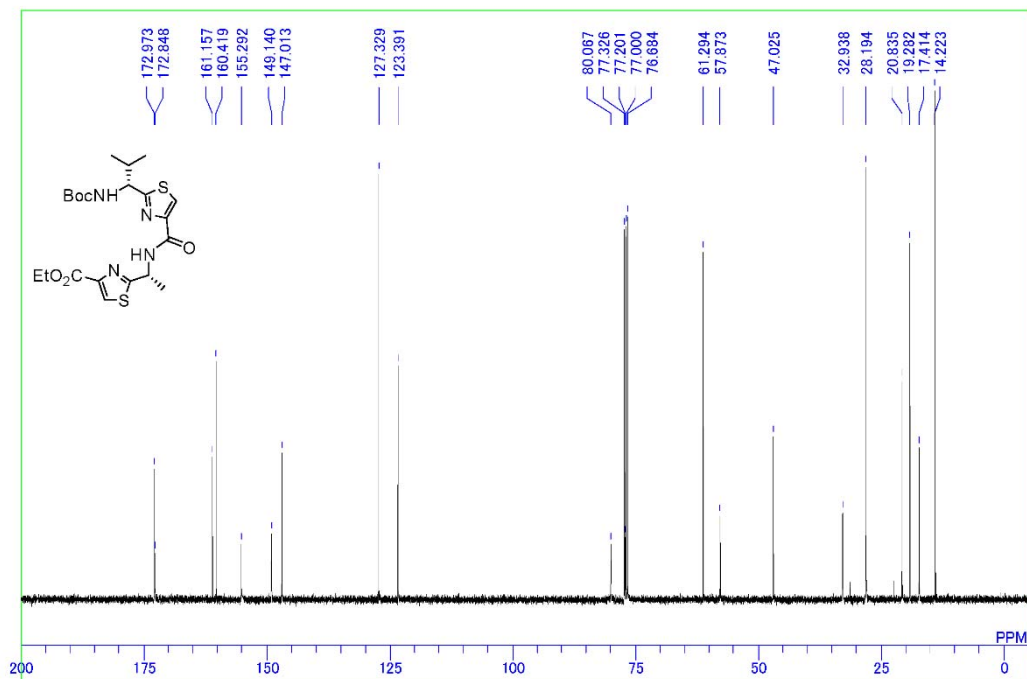
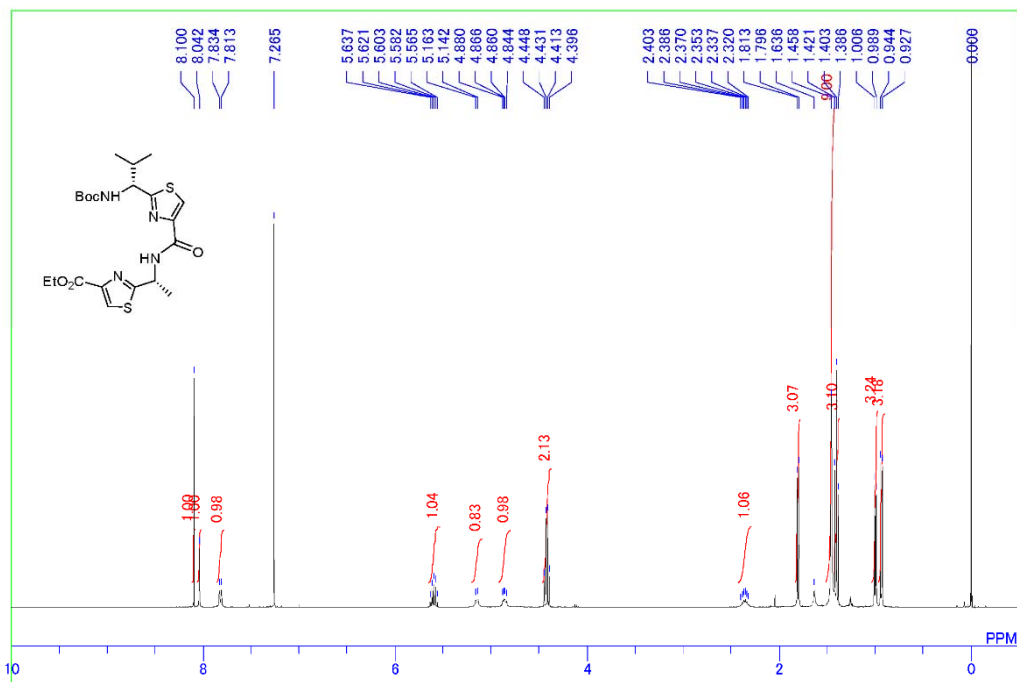
¹H and ¹³C NMR spectra

S2–13

NMR Spectra

Ethyl 2-[(*R*)-1-[2-[(*R*)-1-[(*tert*-butoxycarbonyl)amino]-2-methylpropyl]thiazole-4-carboxamido]ethyl]thiazole-4-carboxylate (11)

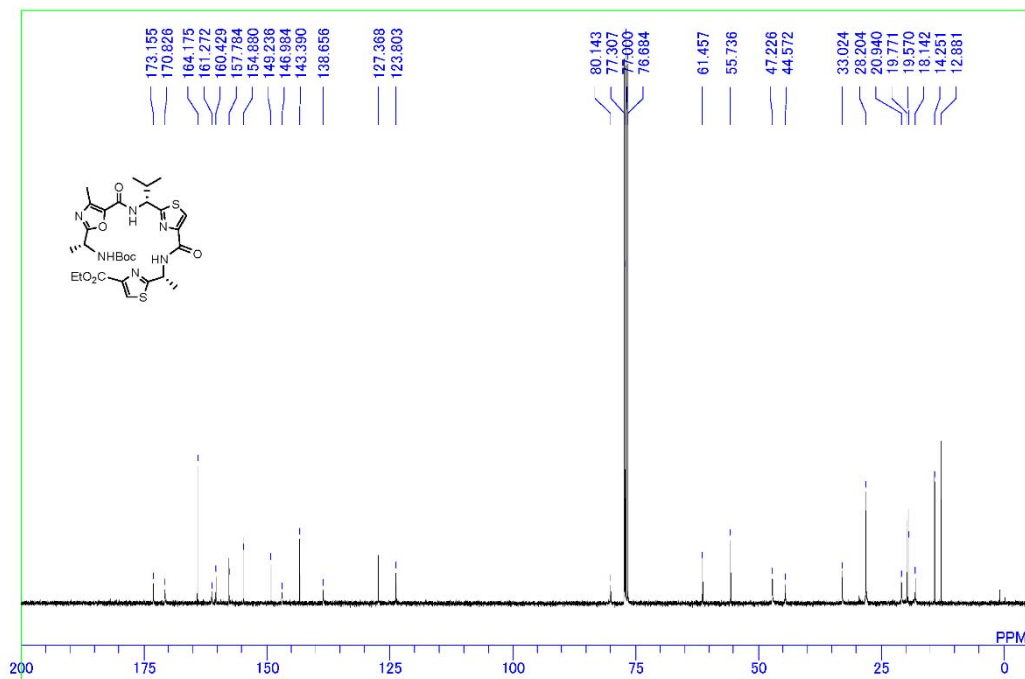
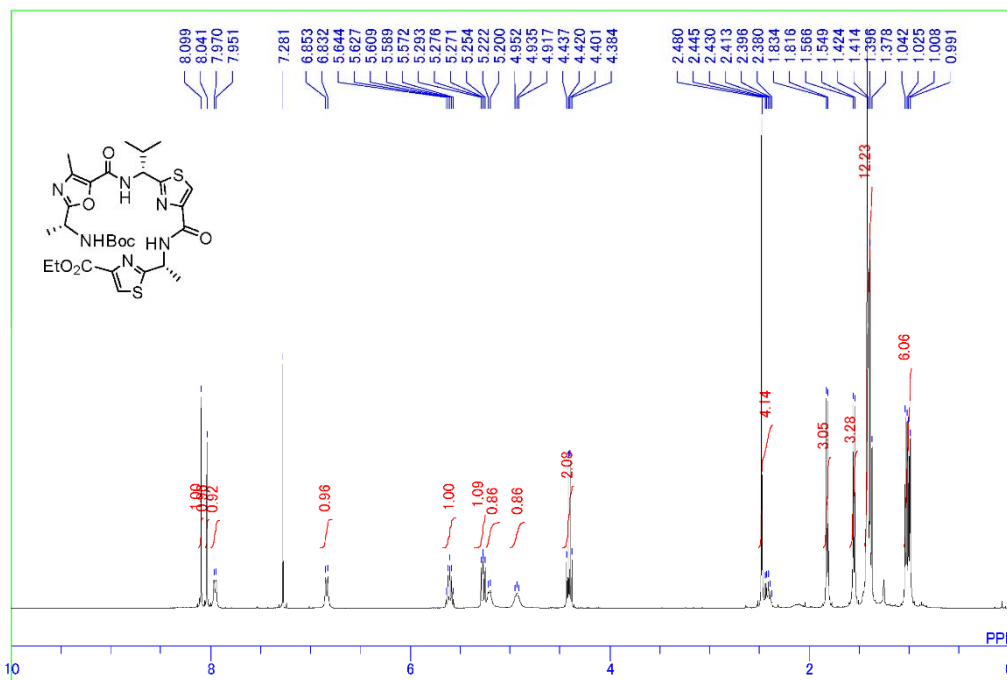
^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).



NMR Spectra

Ethyl 2-[(R)-1-[2-[(R)-1-[2-[(R)-1-[(*tert*-butoxycarbonyl)amino]ethyl]-4-methyloxazole-5-carboxamido]-2-methylpropyl]thiazole-4-carboxamido]ethyl]thiazole-4-carboxylate (12)

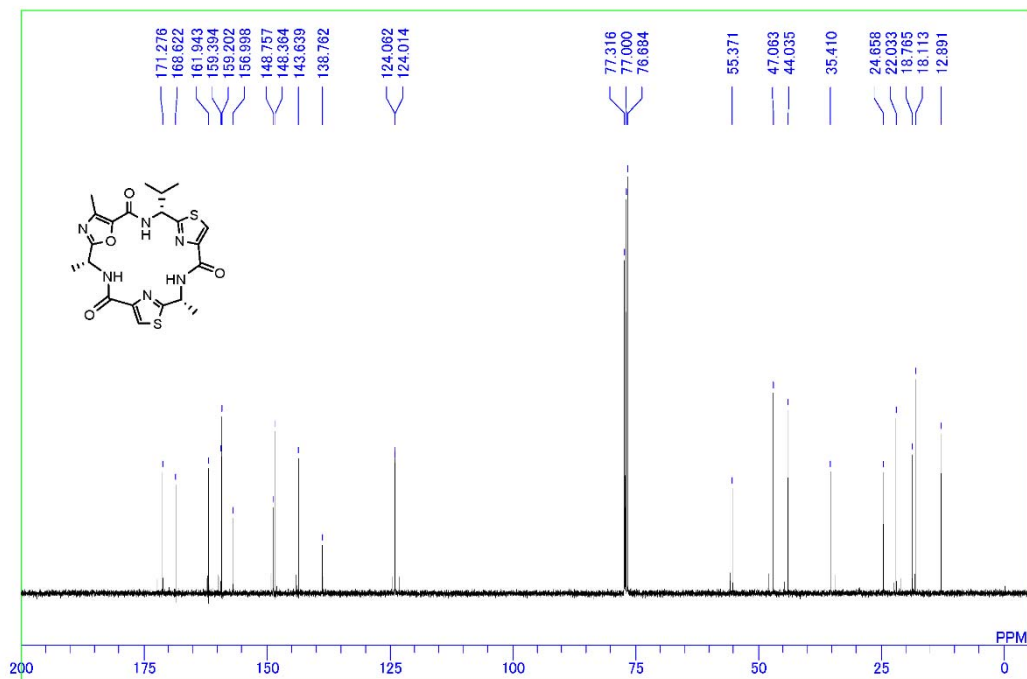
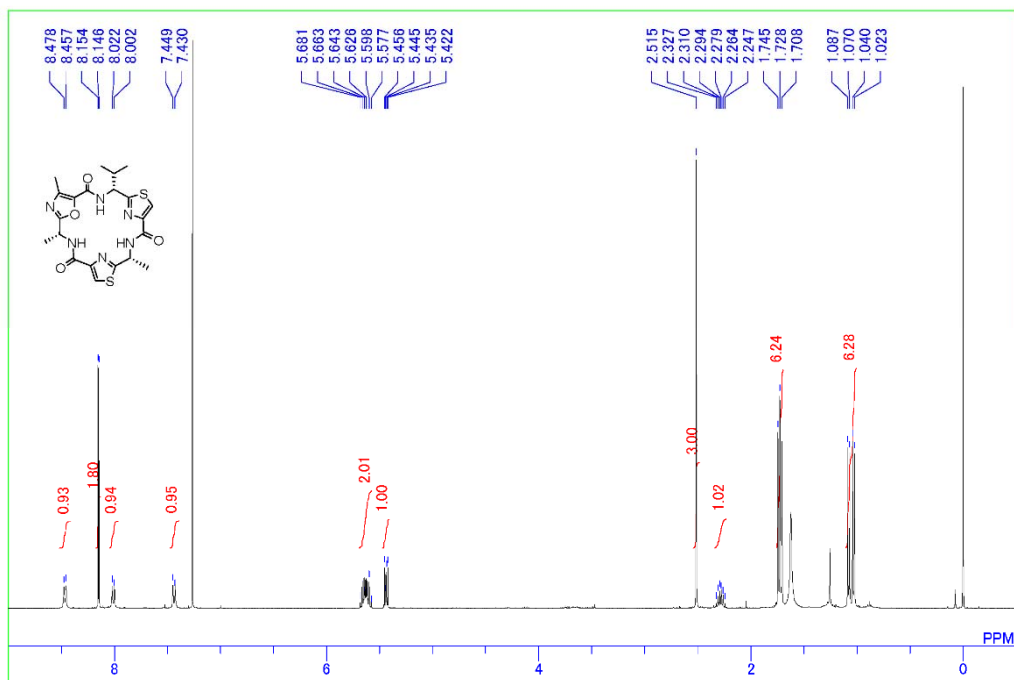
^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).



NMR Spectra

(5²Z,9²Z,2R,6R,10R)-10-Isopropyl-1⁴,2,6-trimethyl-3,7,11-triaza-1(2,5)-oxazola-5,9(4,2)-dithiazolacyclododecaphane-4,8,12-trione [modified *mOzl* analog] (2)

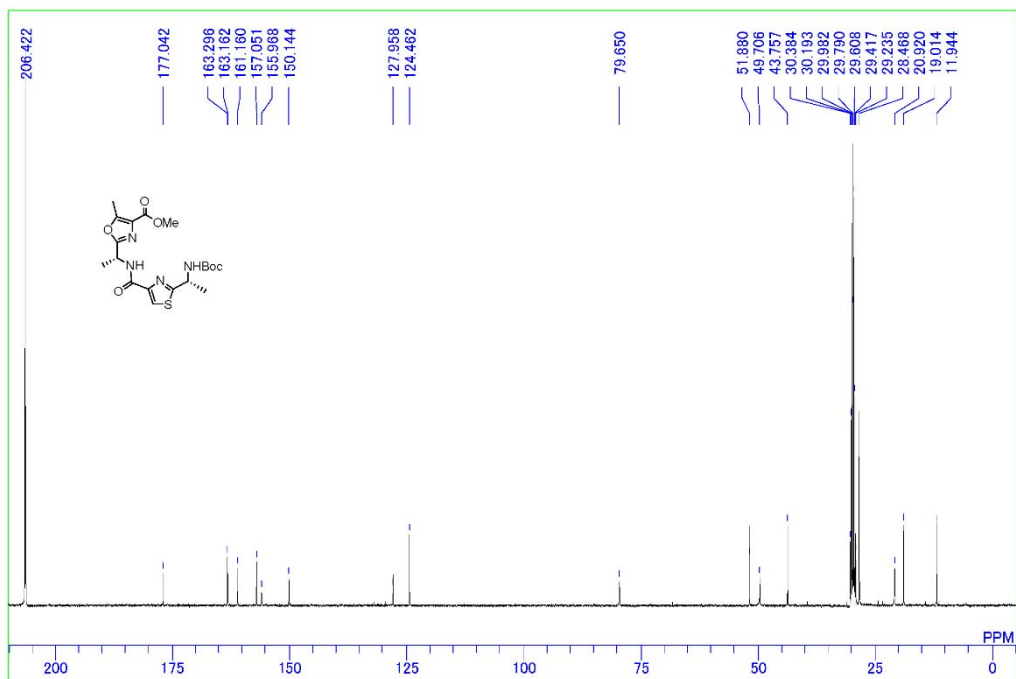
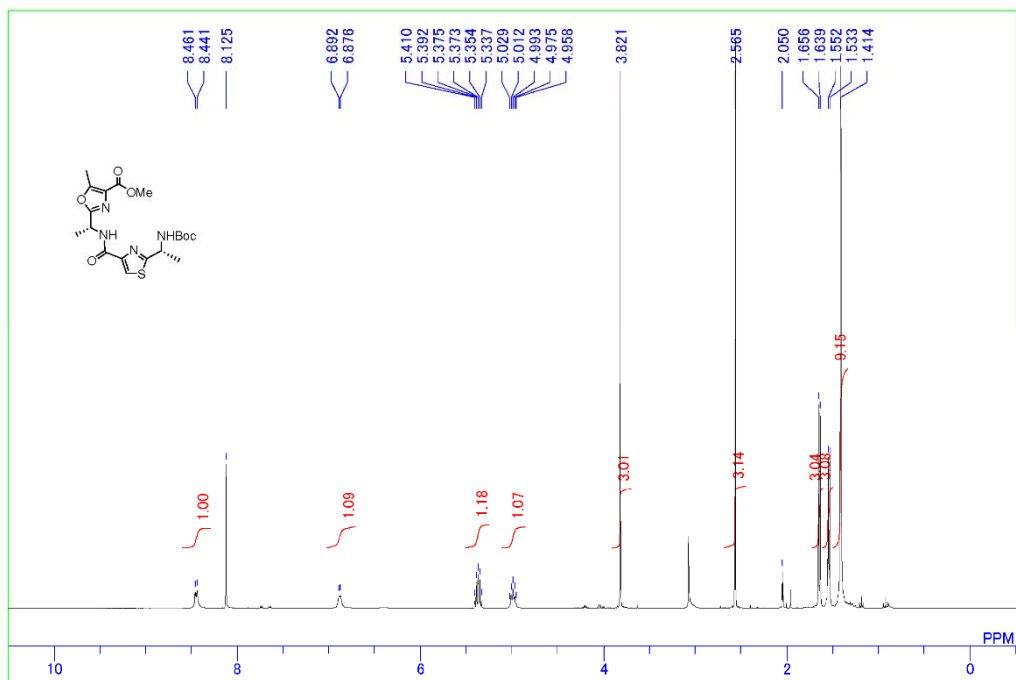
¹H NMR (400 MHz, CDCl₃), ¹³C NMR (100 MHz, CDCl₃).



NMR Spectra

Methyl 2-[(*R*)-1-[2-[(*R*)-1-[(*tert*-butoxycarbonyl)amino]ethyl]thiazole-4-carboxamido]ethyl]-5-methyloxazole-4-carboxylate (**13**)

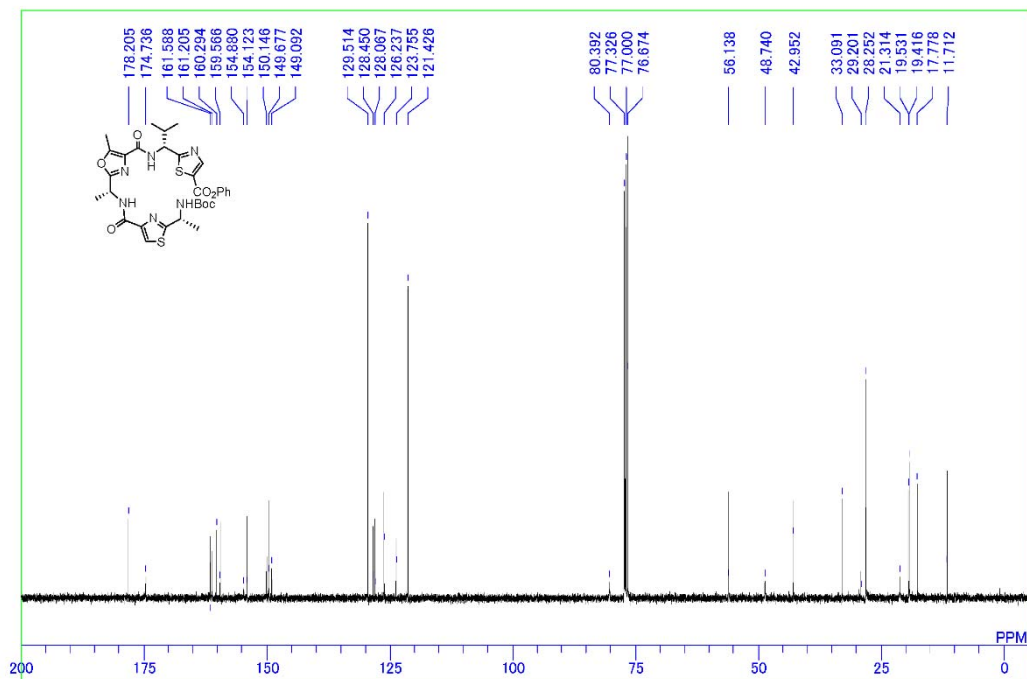
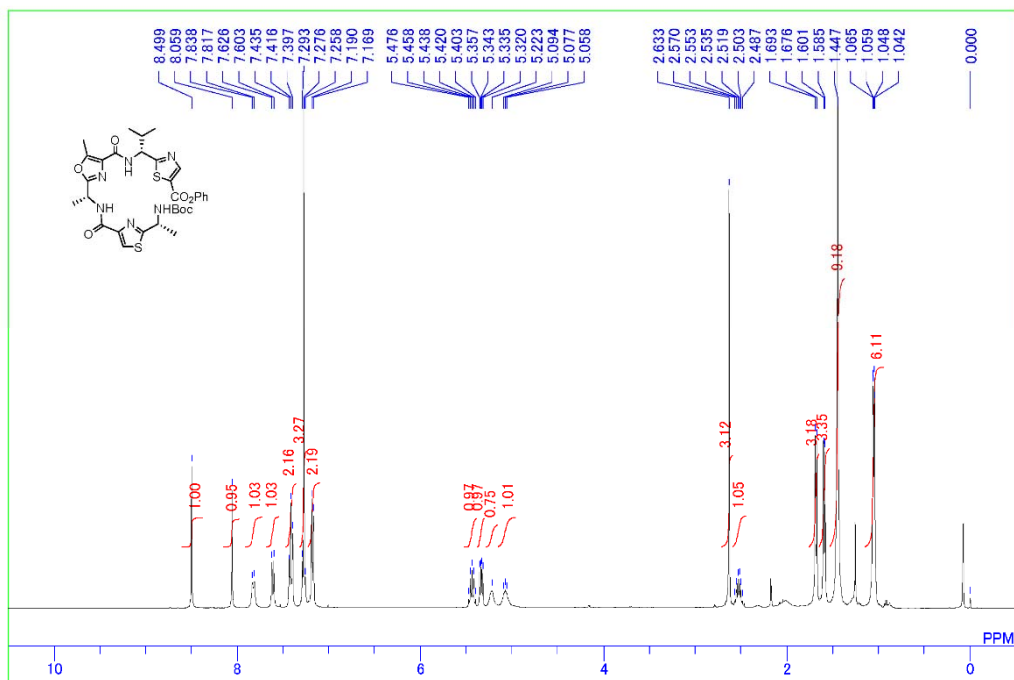
^1H NMR (400 MHz, d^6 -acetone), ^{13}C NMR (100 MHz, d^6 -acetone).



NMR Spectra

Phenyl 2-[(*R*)-1-[2-[(*R*)-1-[2-[(*R*)-1-[(*tert*-butoxycarbonyl)amino]ethyl]thiazole-4-carbox-amido]ethyl]-5-methyloxazole-4-carboxamido]-2-methylpropyl]thiazole-5-carboxylate (14)

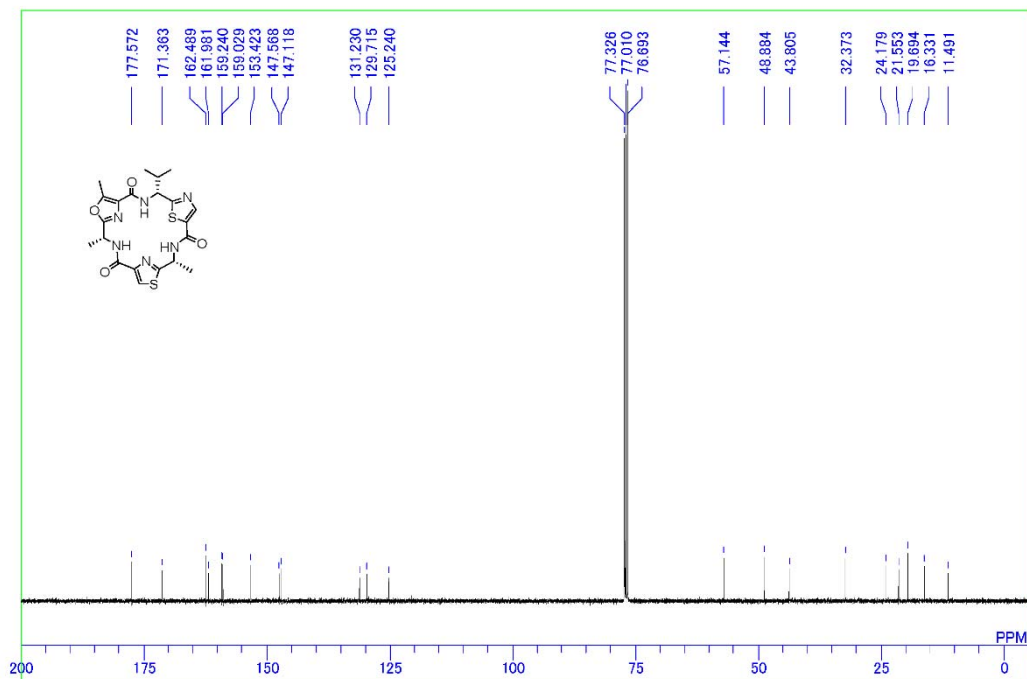
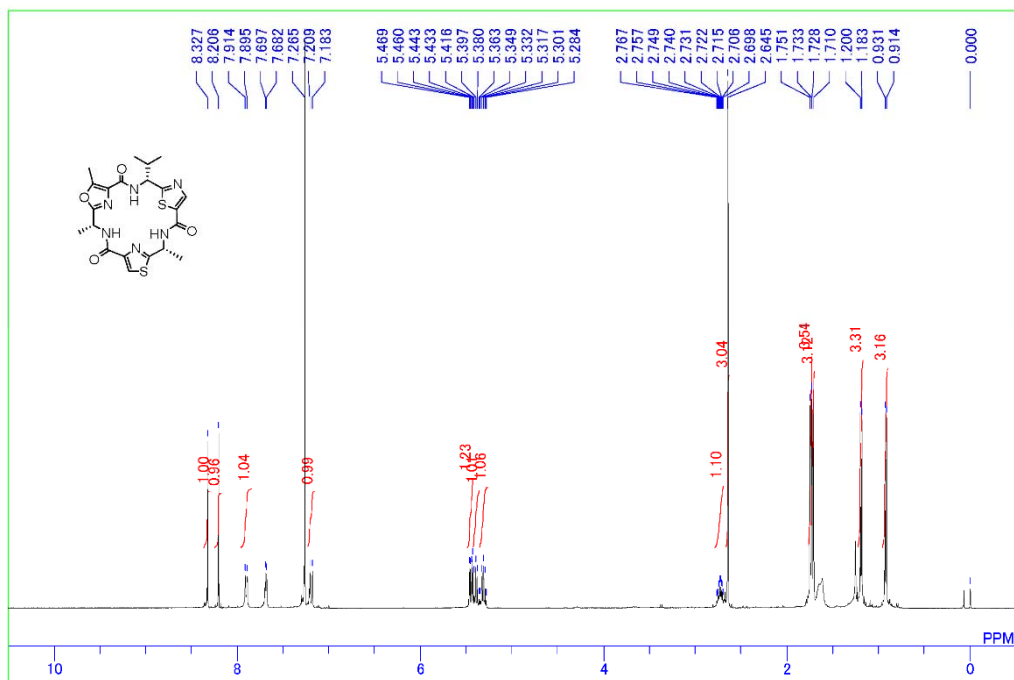
^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).



NMR Spectra

(1²Z,5²Z,2R,6R,10R)-10-Isopropyl-1⁵,2,6-trimethyl-3,7,11-triaza-1(2,4)-oxazola-5(4,2),9(5,2)-dithiazolacyclododecaphane-4,8,12-trione [modified (Val)Thz analog] (3)

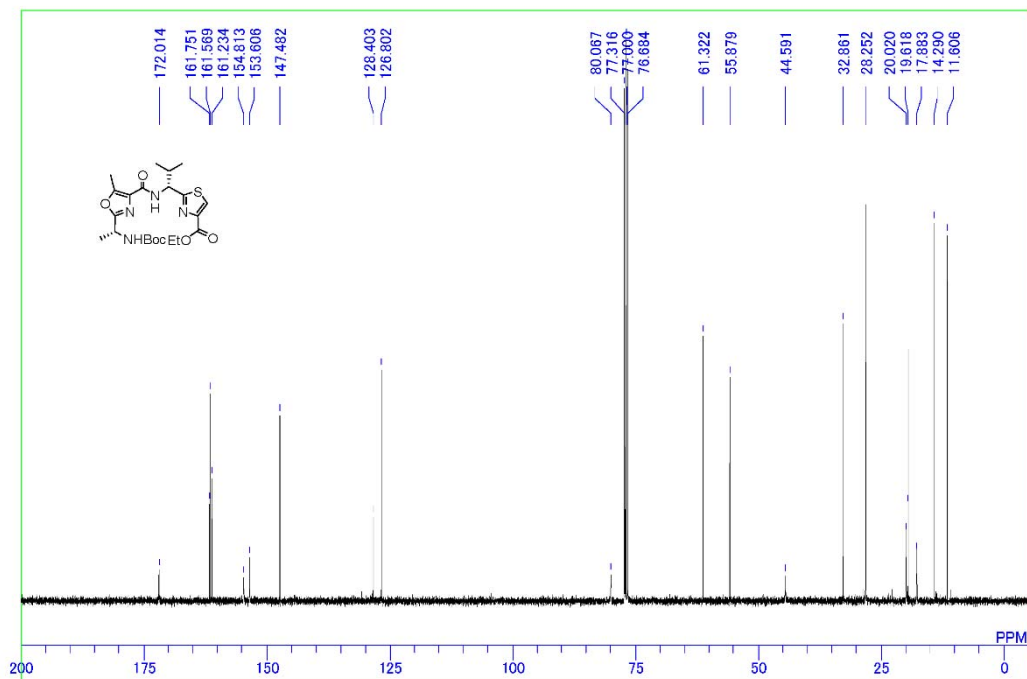
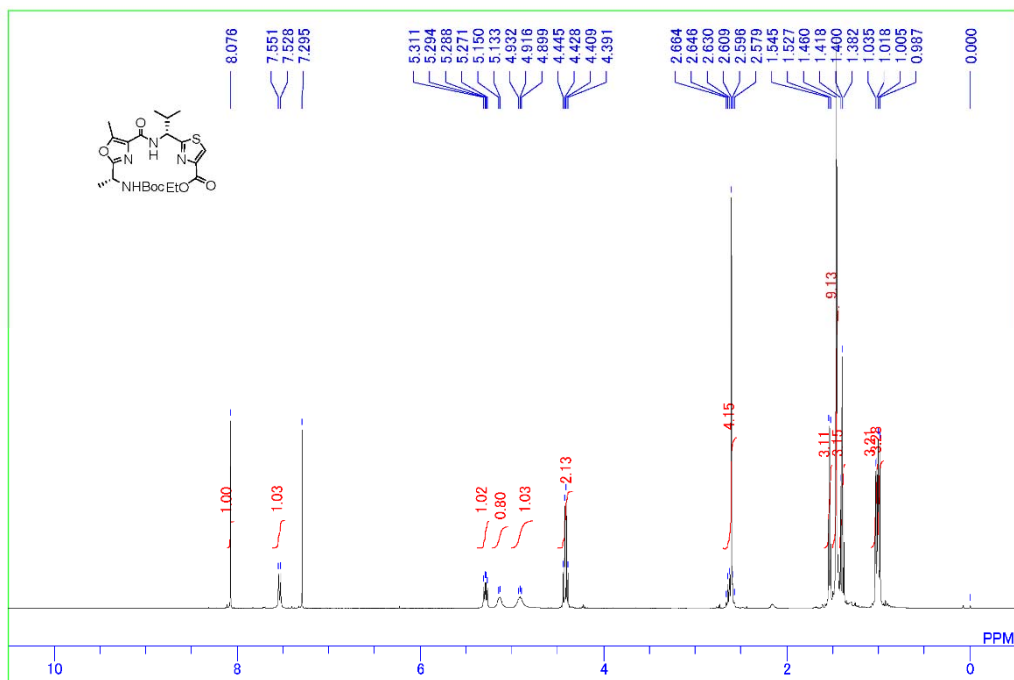
¹H NMR (400 MHz, CDCl₃), ¹³C NMR (100 MHz, CDCl₃).



NMR Spectra

Ethyl 2-[(*R*)-1-[2-[(*R*)-1-[(*tert*-butoxycarbonyl)amino]ethyl]-5-methyloxazole-4-carbox-amido]-2-methylpropyl]thiazole-4-carboxylate (**15**)

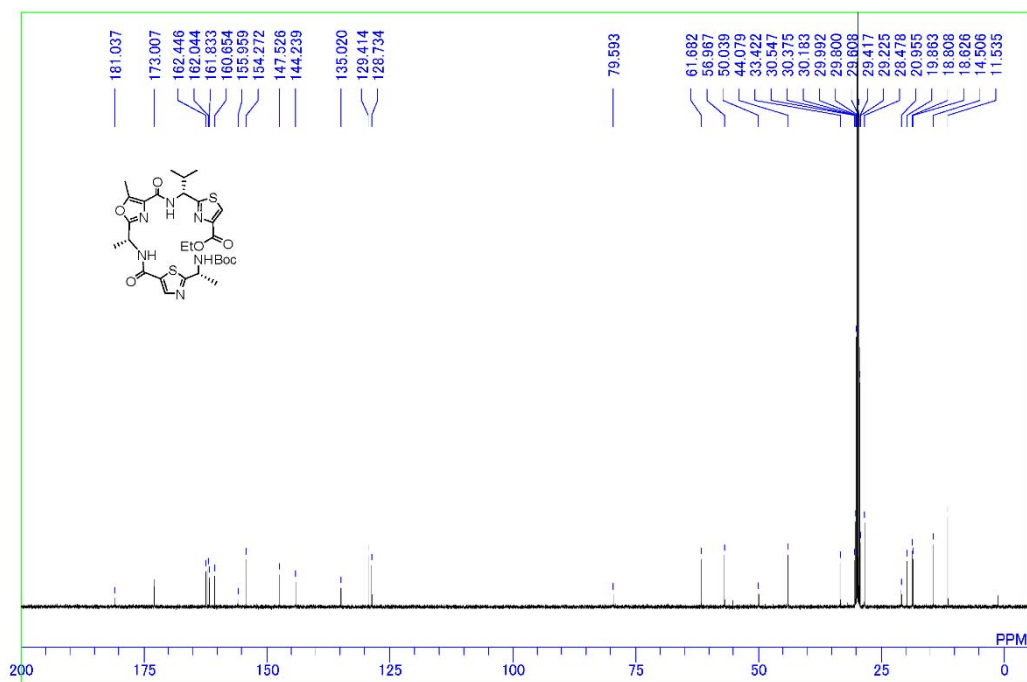
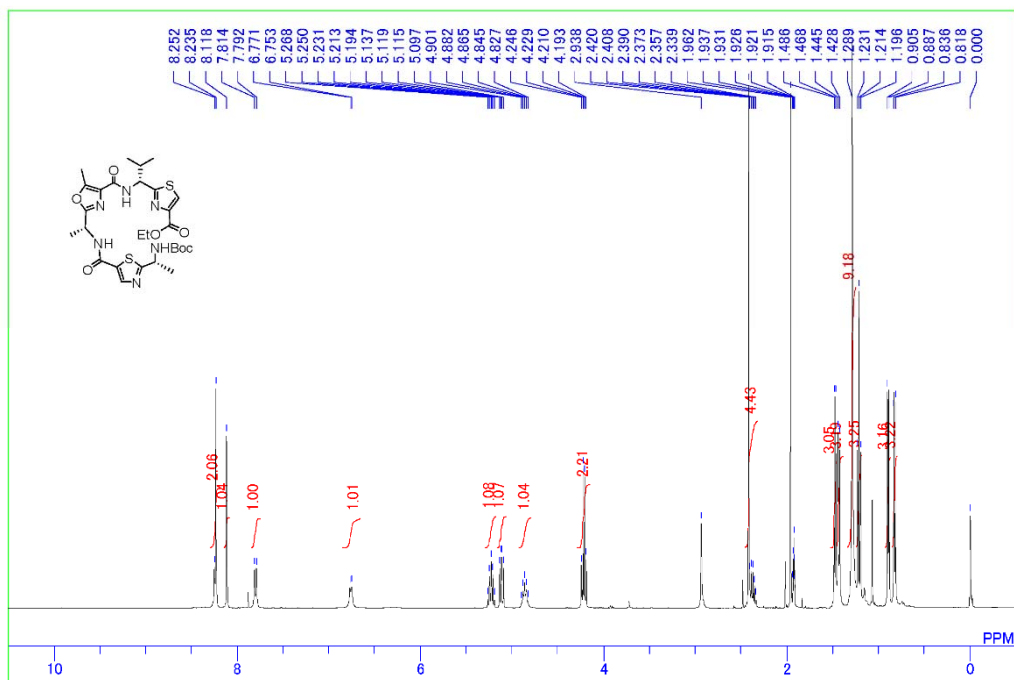
^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).



NMR Spectra

Ethyl 2-[(*R*)-1-[2-[(*R*)-1-[2-[(*R*)-1-[(*tert*-butoxycarbonyl)amino]ethyl]thiazole-5-carboxamido]ethyl]-5-methyloxazole-4-carboxamido]-2-methylpropyl]thiazole-4-carboxylate (16)

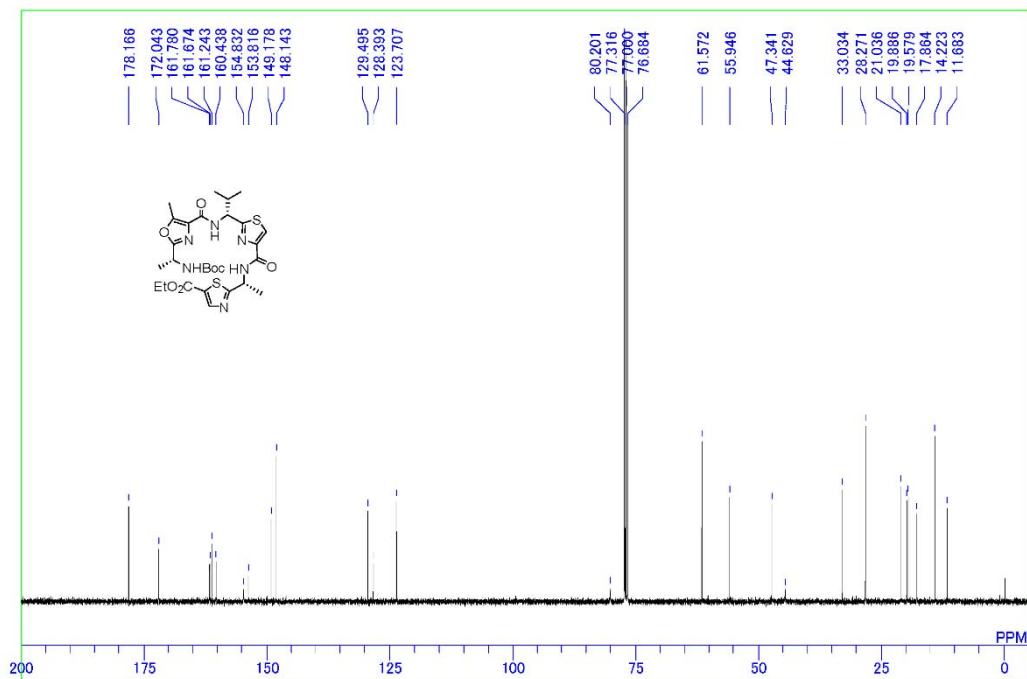
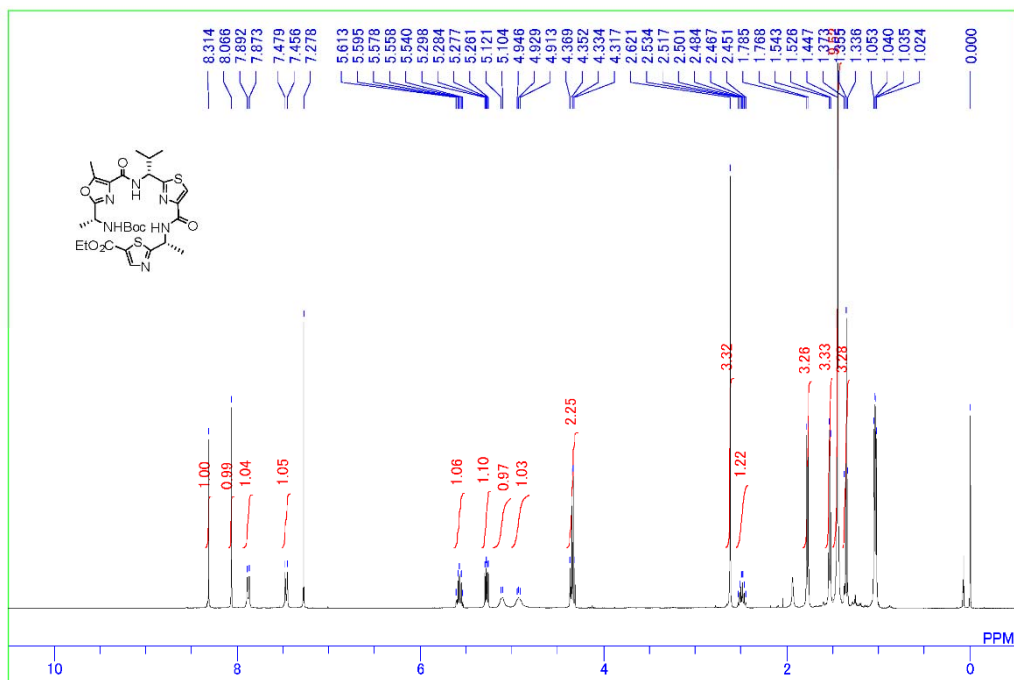
^1H NMR (400 MHz, d^6 -acetone), ^{13}C NMR (100 MHz, d^6 -acetone).



NMR Spectra

Ethyl 2-[(*R*)-1-[2-[(*R*)-1-[2-[(*R*)-1-(*tert*-butoxycarbonyl)amino]ethyl]-5-methyloxazole-4-carboxamido]-2-methylpropyl]thiazole-4-carboxamido]ethyl]thiazole-5-carboxylate (17)

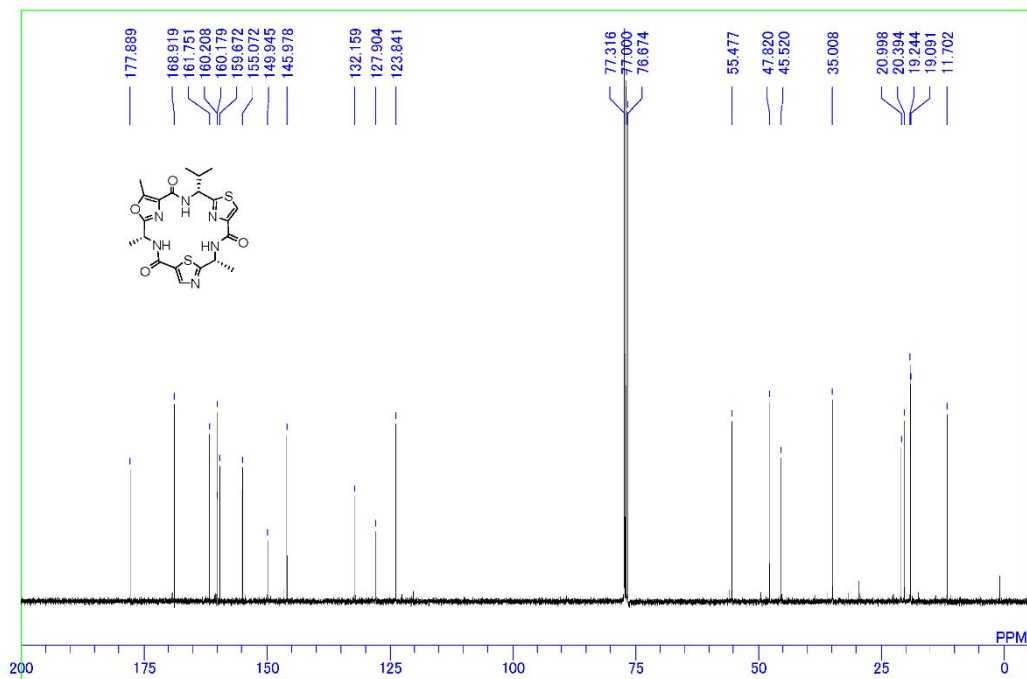
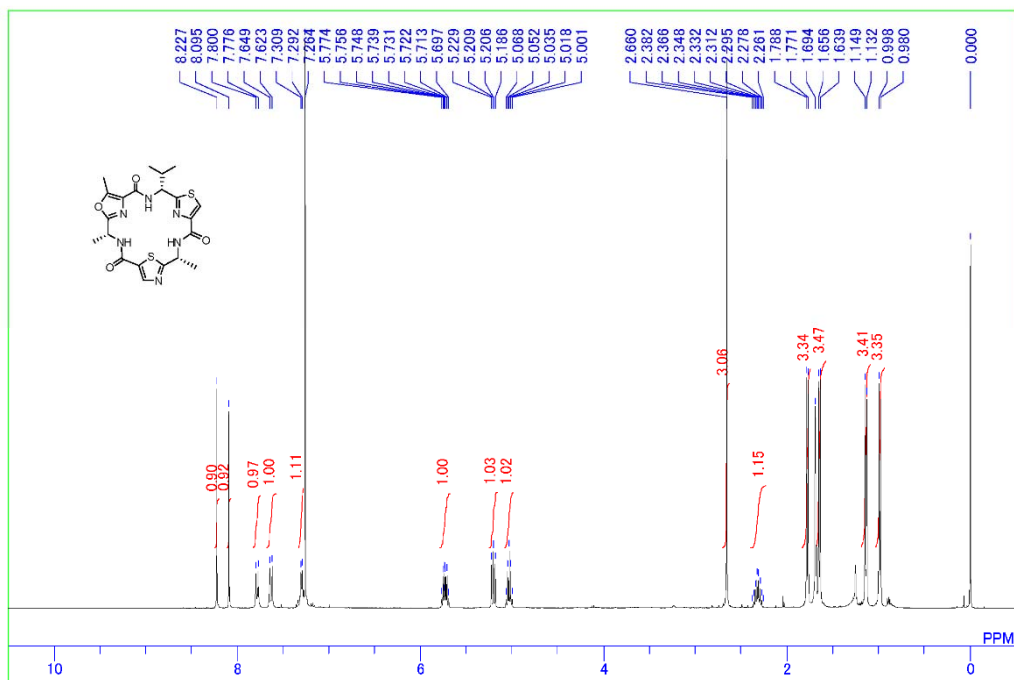
^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).



NMR Spectra

(1²Z,5²Z,4*R*,8*R*,12*R*)-4-Isopropyl-1⁵,8,12-trimethyl-3,7,11-triaza-1(4,2)-oxazola-5(2,4),9(2,5)-dithiazolacyclododecaphane-2,6,10-trione [modified (Ala)Thz analog] (4)

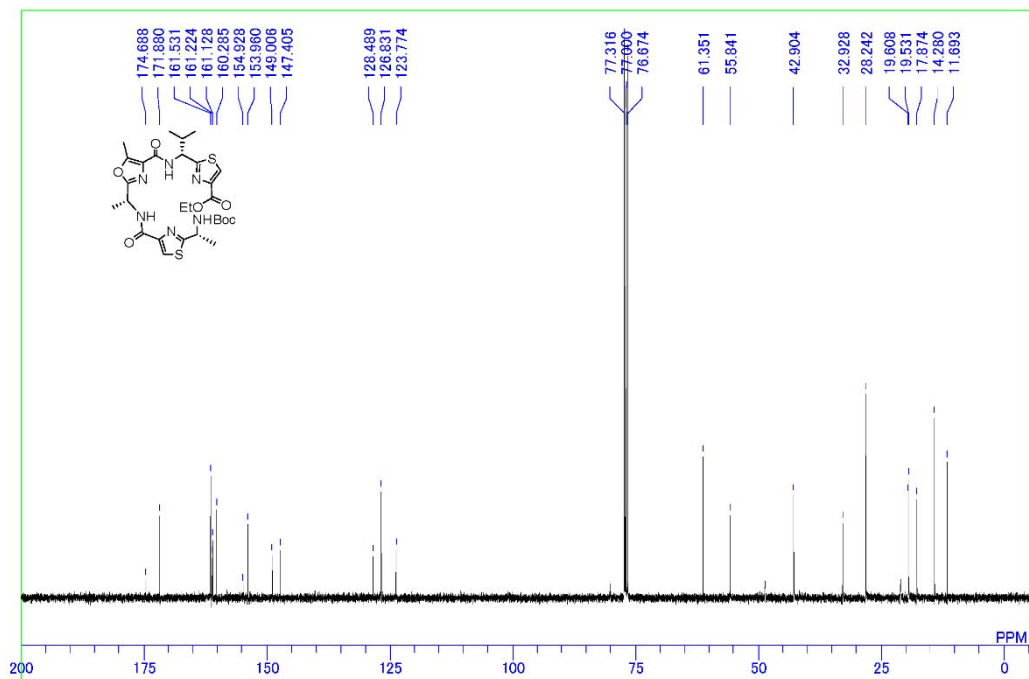
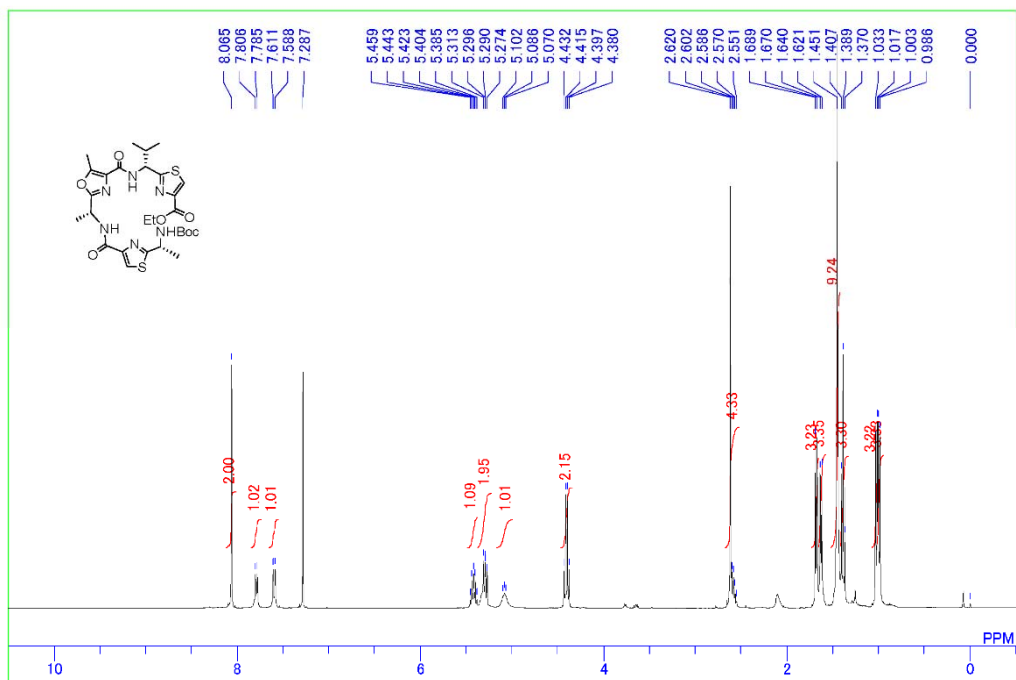
¹H NMR (400 MHz, CDCl₃), ¹³C NMR (100 MHz, CDCl₃).



NMR Spectra

Ethyl 2-[(*R*)-1-[2-[(*R*)-1-[2-[(*R*)-1-[(*tert*-butoxycarbonyl)amino]ethyl]thiazole-4-carbox-amido]ethyl]-5-methyloxazole-4-carboxamido]-2-methylpropyl]thiazole-4-carboxylate (18)

^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).



NMR Spectra

Dendroamide A (1)

^1H NMR (400 MHz, CDCl_3), ^{13}C NMR (100 MHz, CDCl_3).

