

## Supporting Information

### **The modular synthesis of multivalent functionalised glycodendrons for the detection of lectins including DC-SIGN**

Stefan Munneke,<sup>a</sup> Kristel Kodar,<sup>a</sup> Gavin F. Painter,<sup>b,c</sup> Bridget L. Stocker,<sup>a,b,\*</sup> Mattie S.M. Timmer.<sup>a,b,\*</sup>

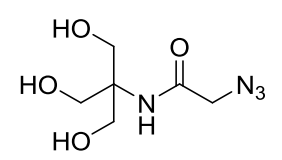
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<sup>a</sup> School of Chemical and Physical Sciences, Victoria University of Wellington, PO Box 600, Wellington, New Zealand

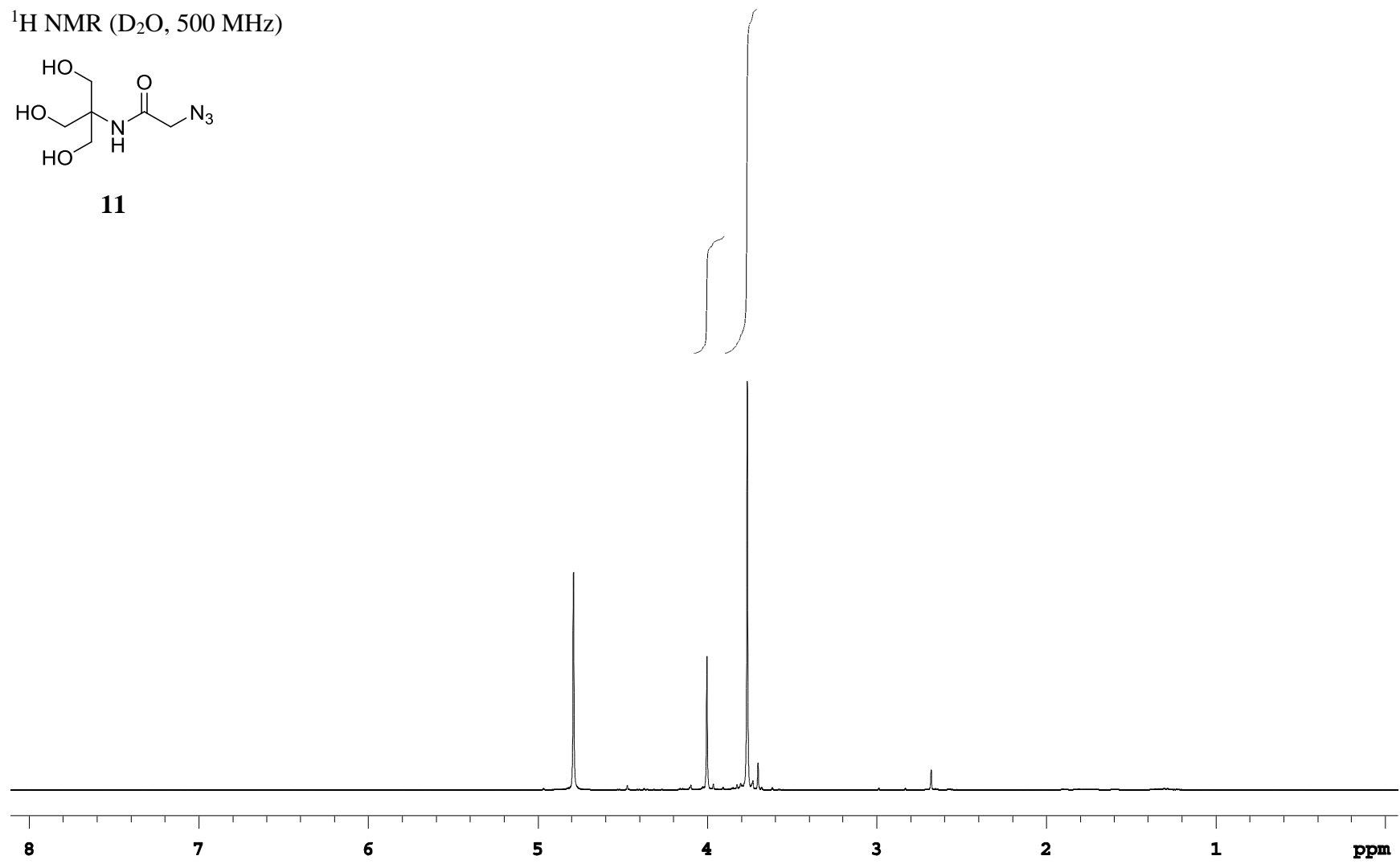
<sup>b</sup> Centre for Biodiscovery, Victoria University of Wellington, PO Box 600, Wellington, New Zealand

<sup>c</sup> Ferrier Research Institute, Victoria University of Wellington, P.O. Box 600, Wellington, New Zealand

$^1\text{H}$  NMR ( $\text{D}_2\text{O}$ , 500 MHz)

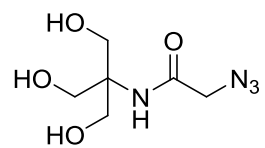


**11**

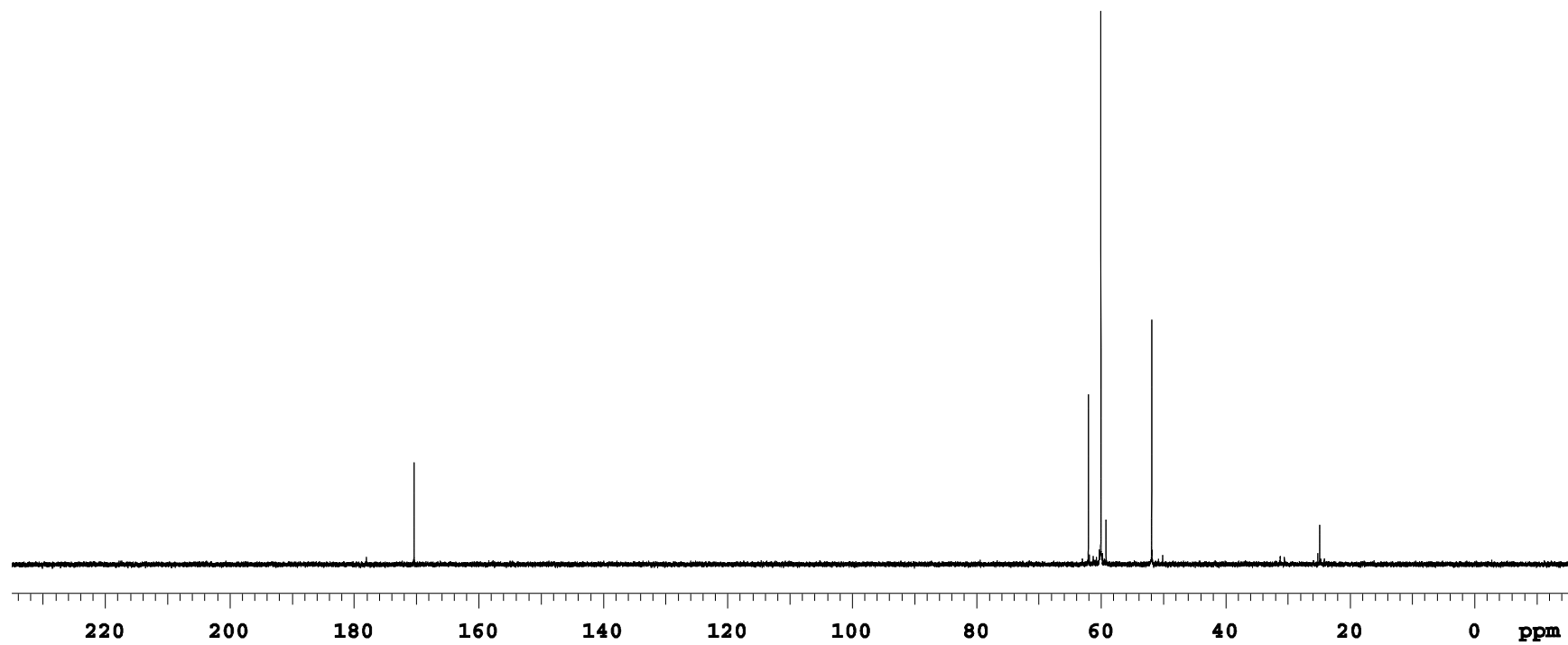


SI-2

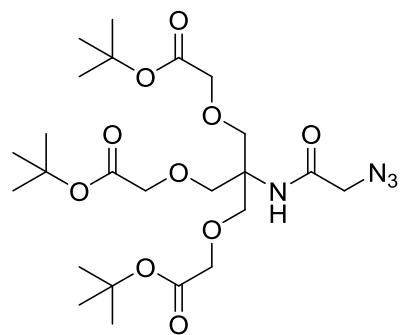
$^{13}\text{C}$  NMR ( $\text{D}_2\text{O}$ , 125 MHz)



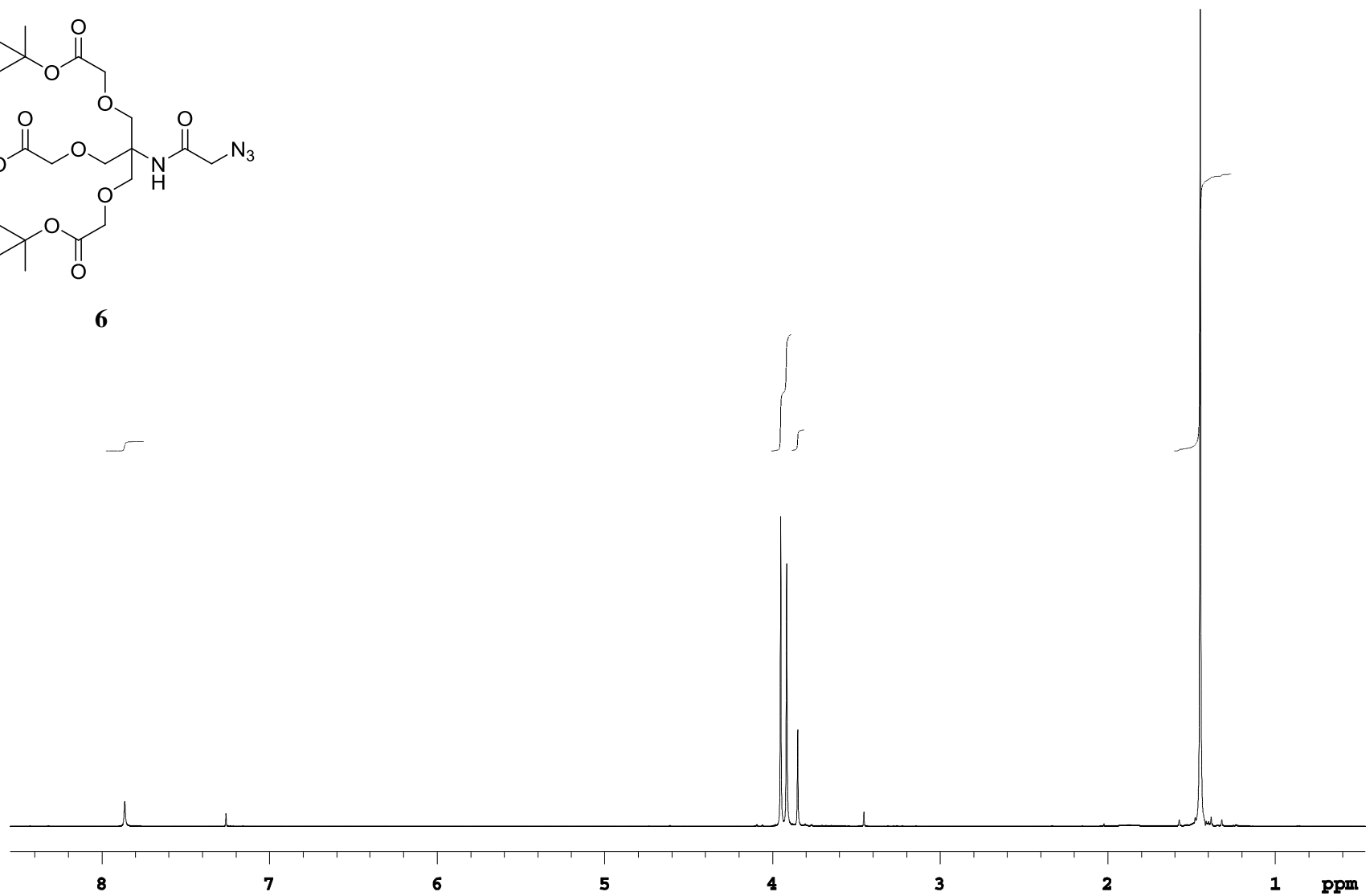
**11**



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 500 MHz)

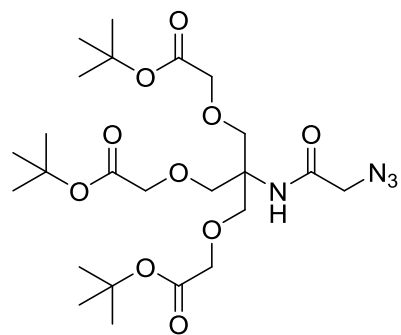


**6**

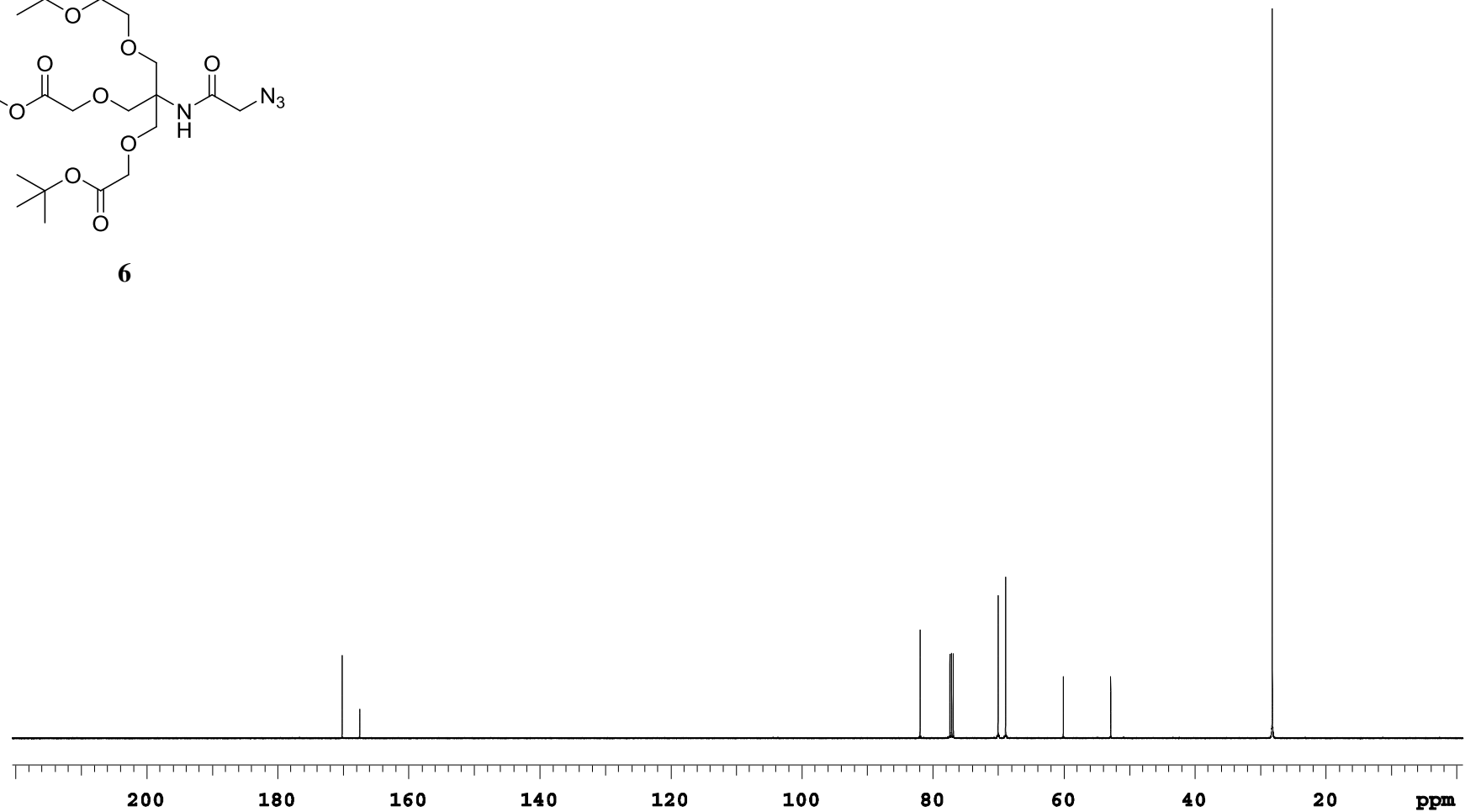


SI-4

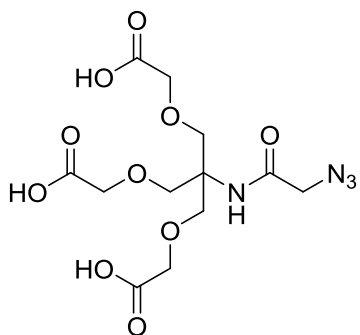
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz)



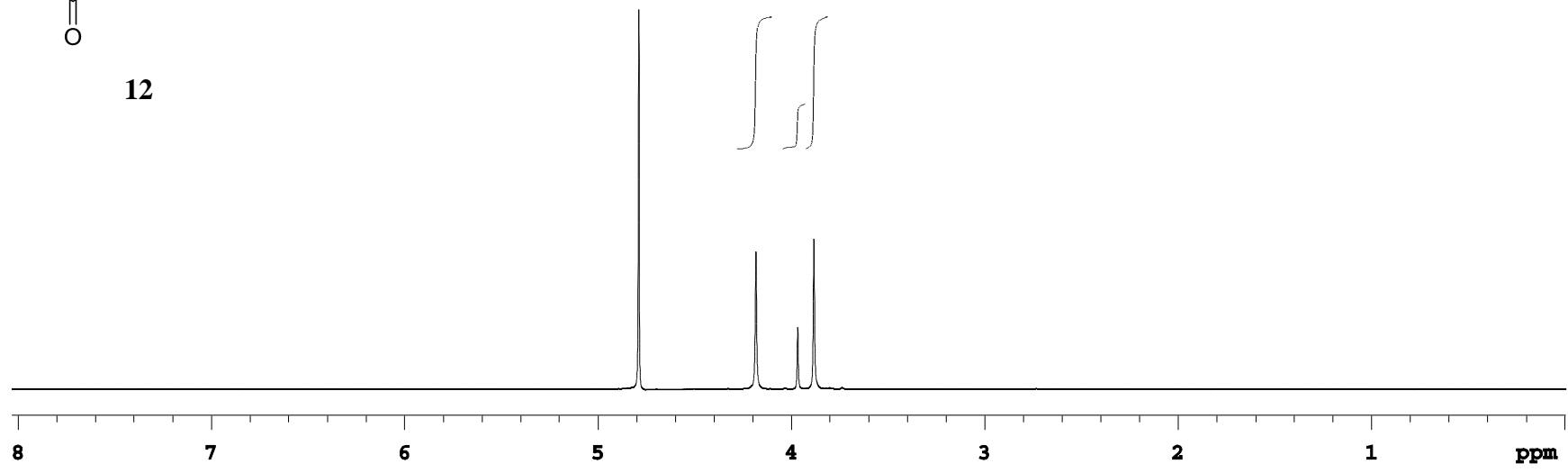
**6**



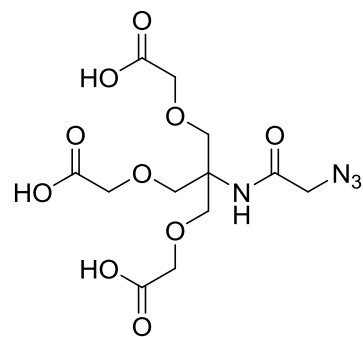
<sup>1</sup>H NMR (D<sub>2</sub>O, 500 MHz)



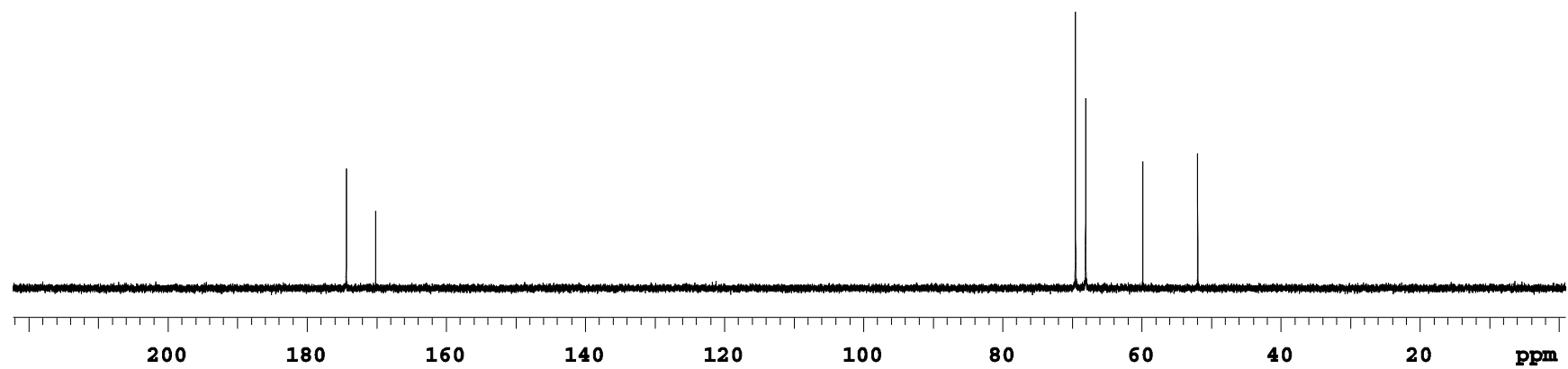
12



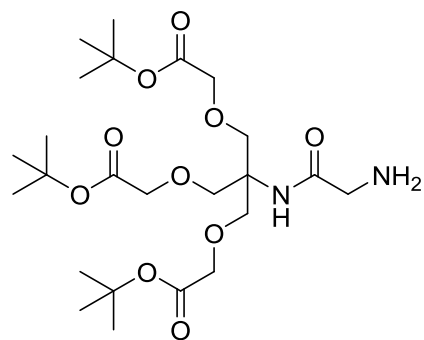
$^{13}\text{C}$  NMR ( $\text{D}_2\text{O}$ , 125 MHz)



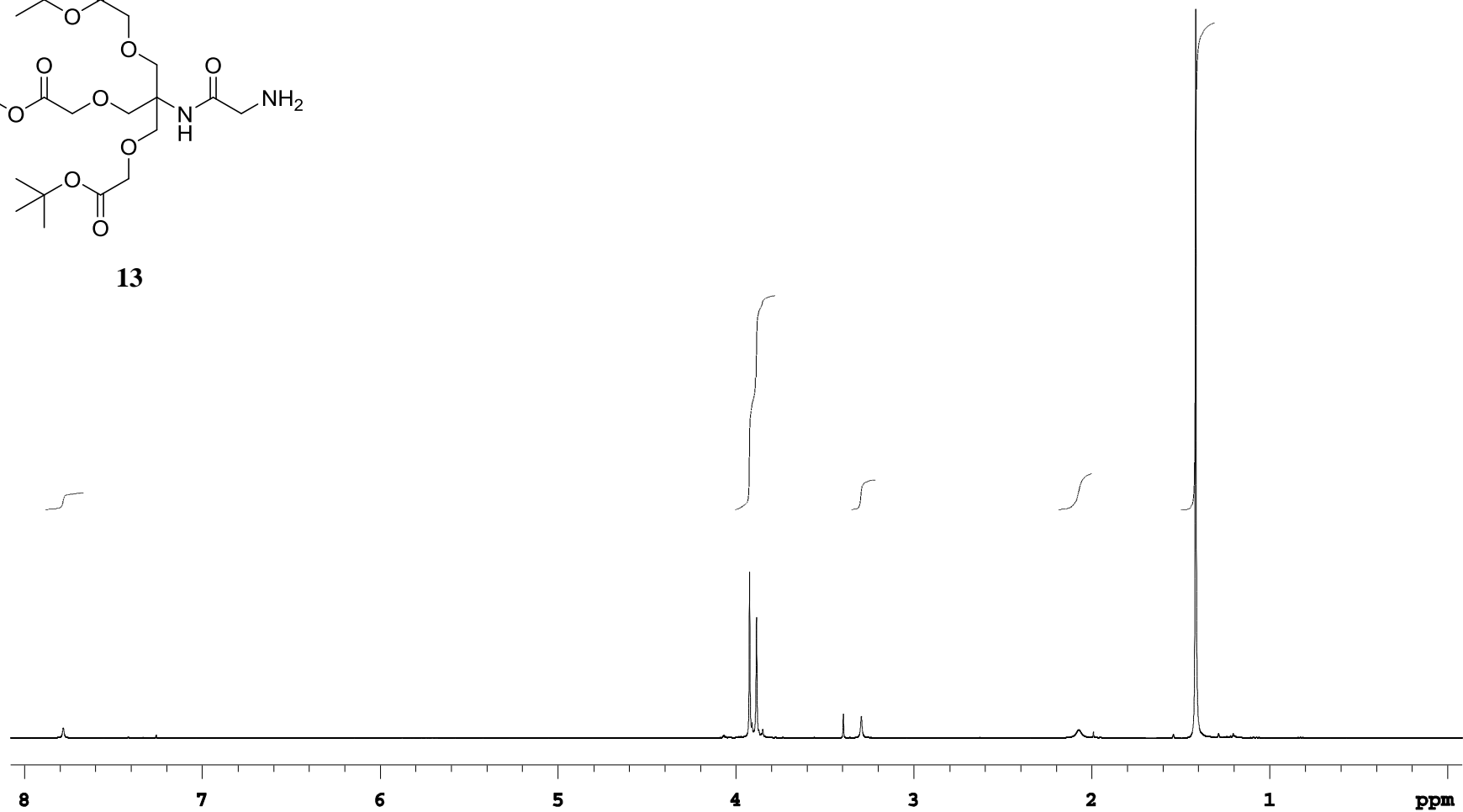
12



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz)



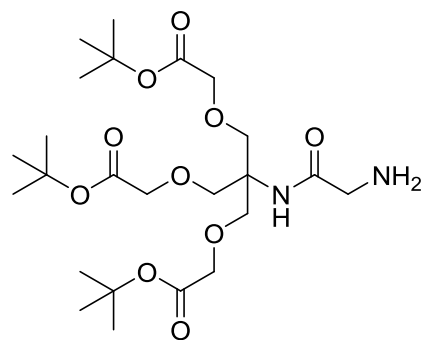
**13**



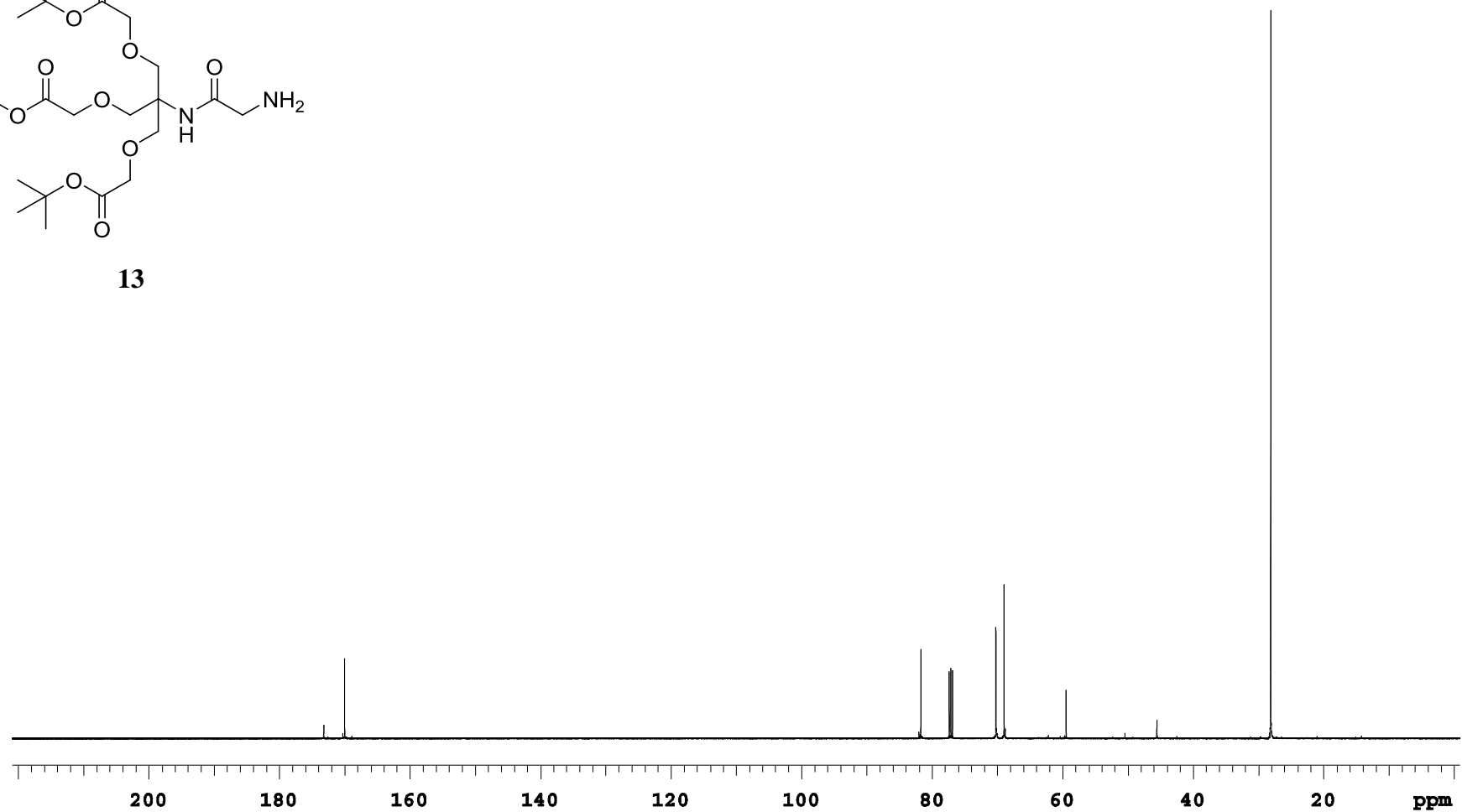
SI-8



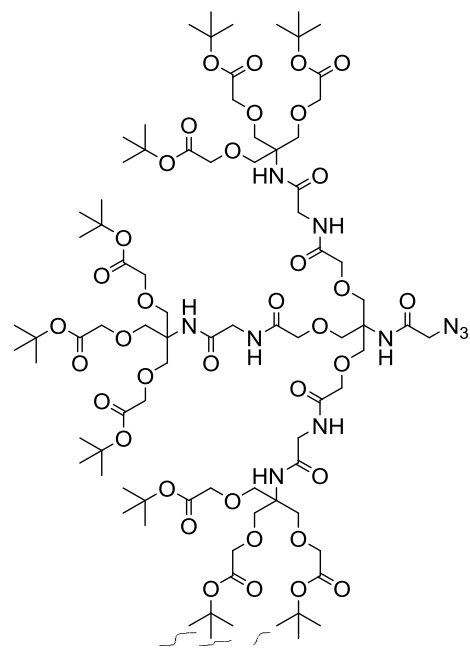
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz)



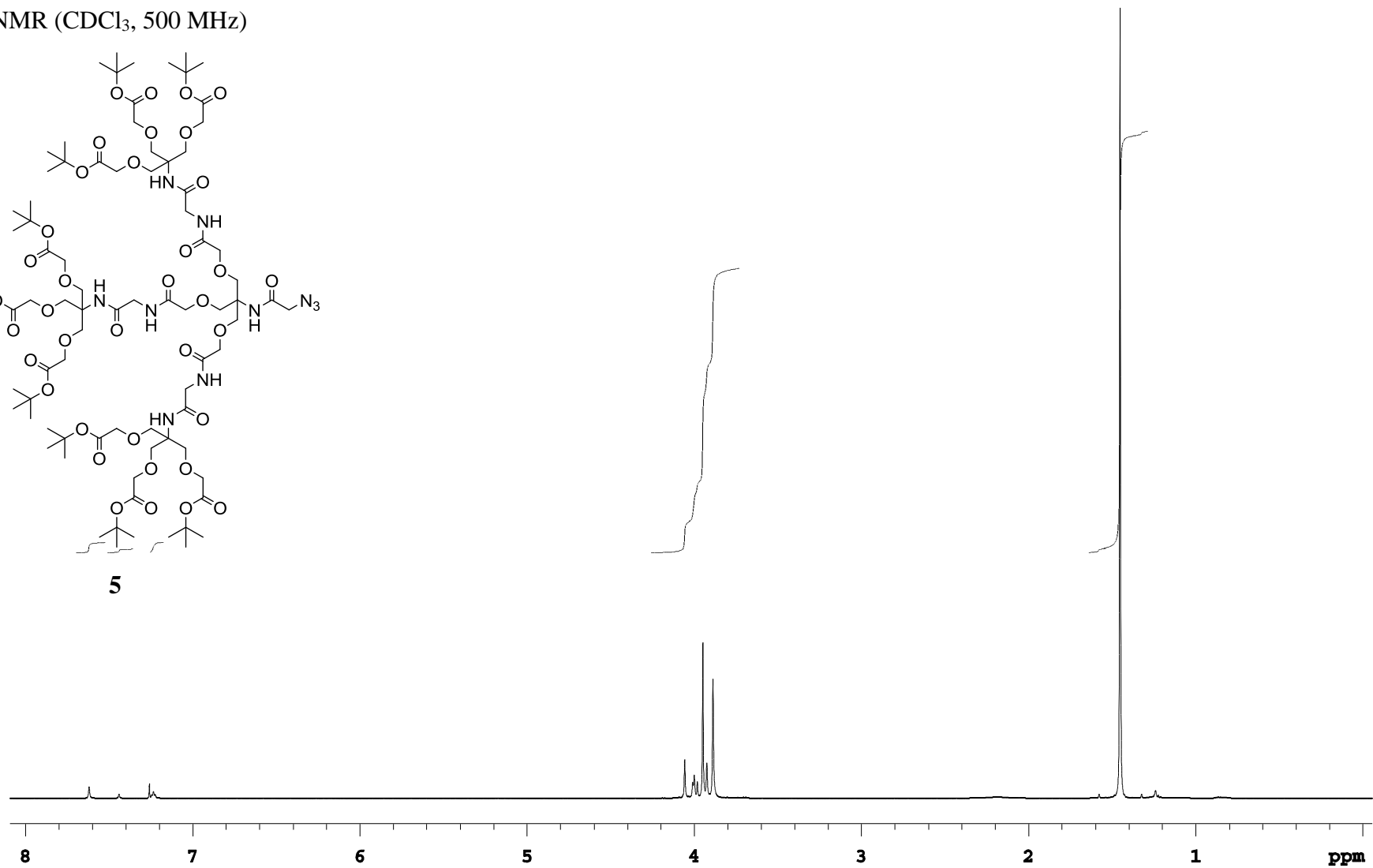
**13**



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz)

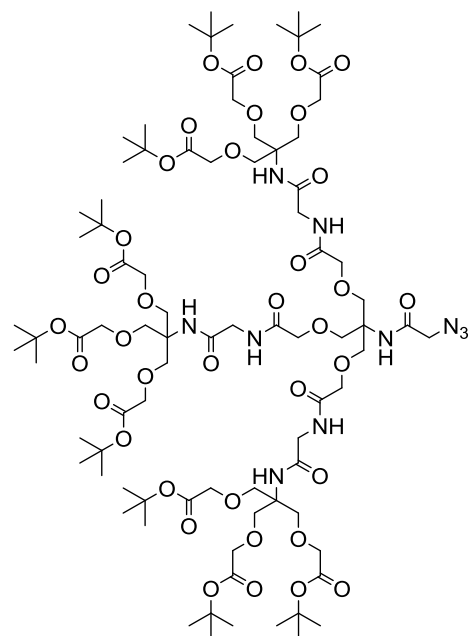


**5**

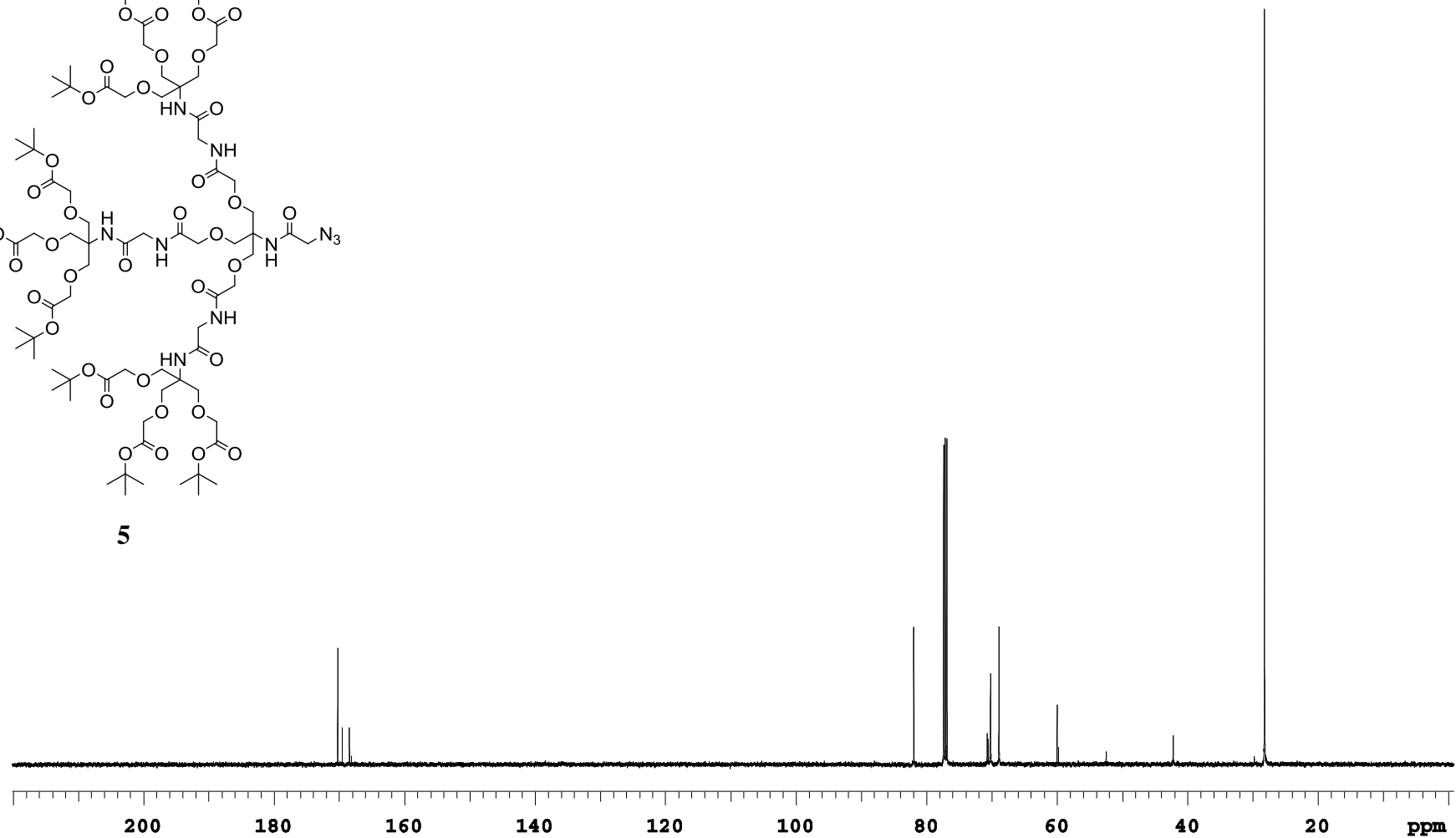


SI-10

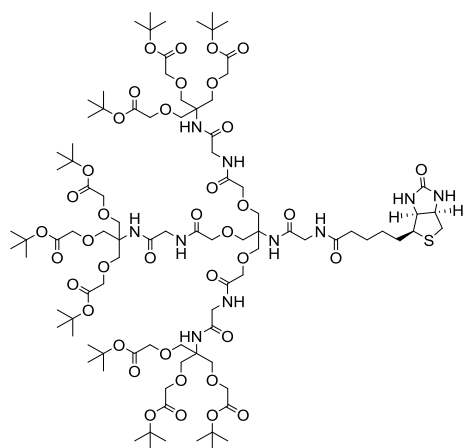
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz)



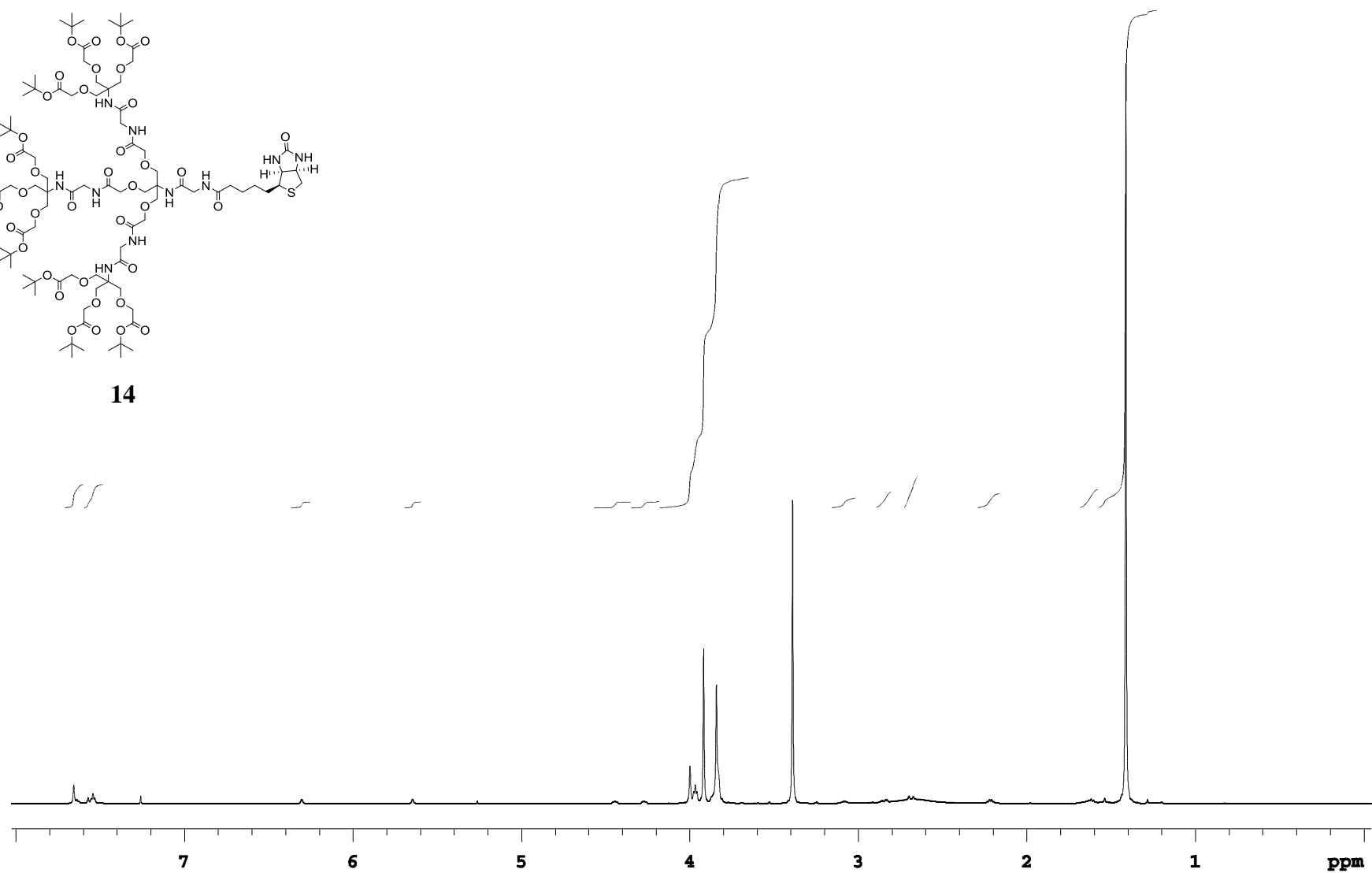
**5**



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz)

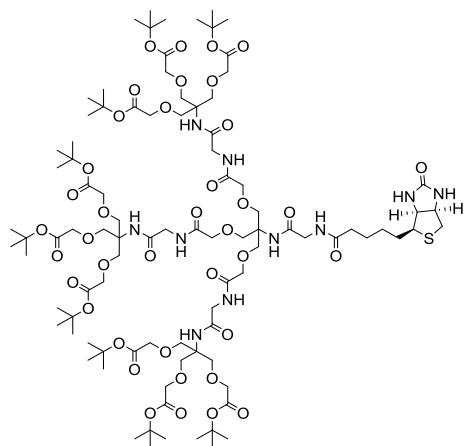


**14**

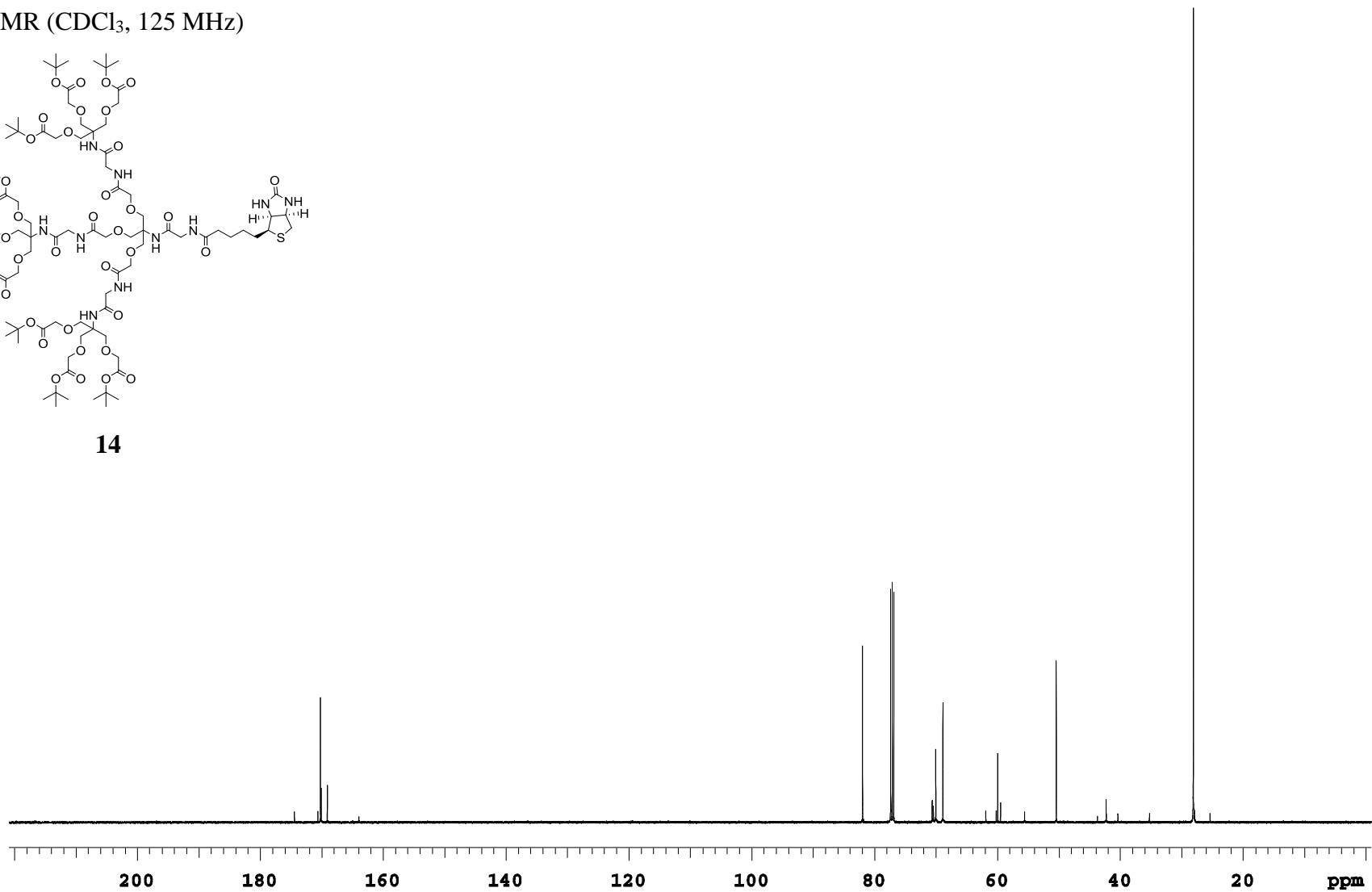


SI-12

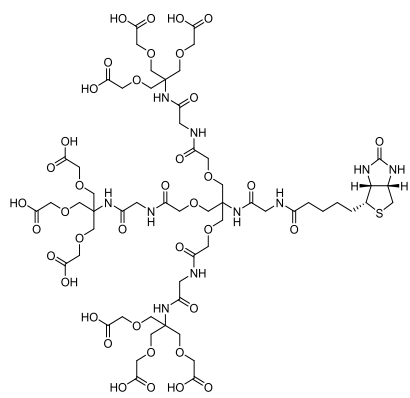
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz)



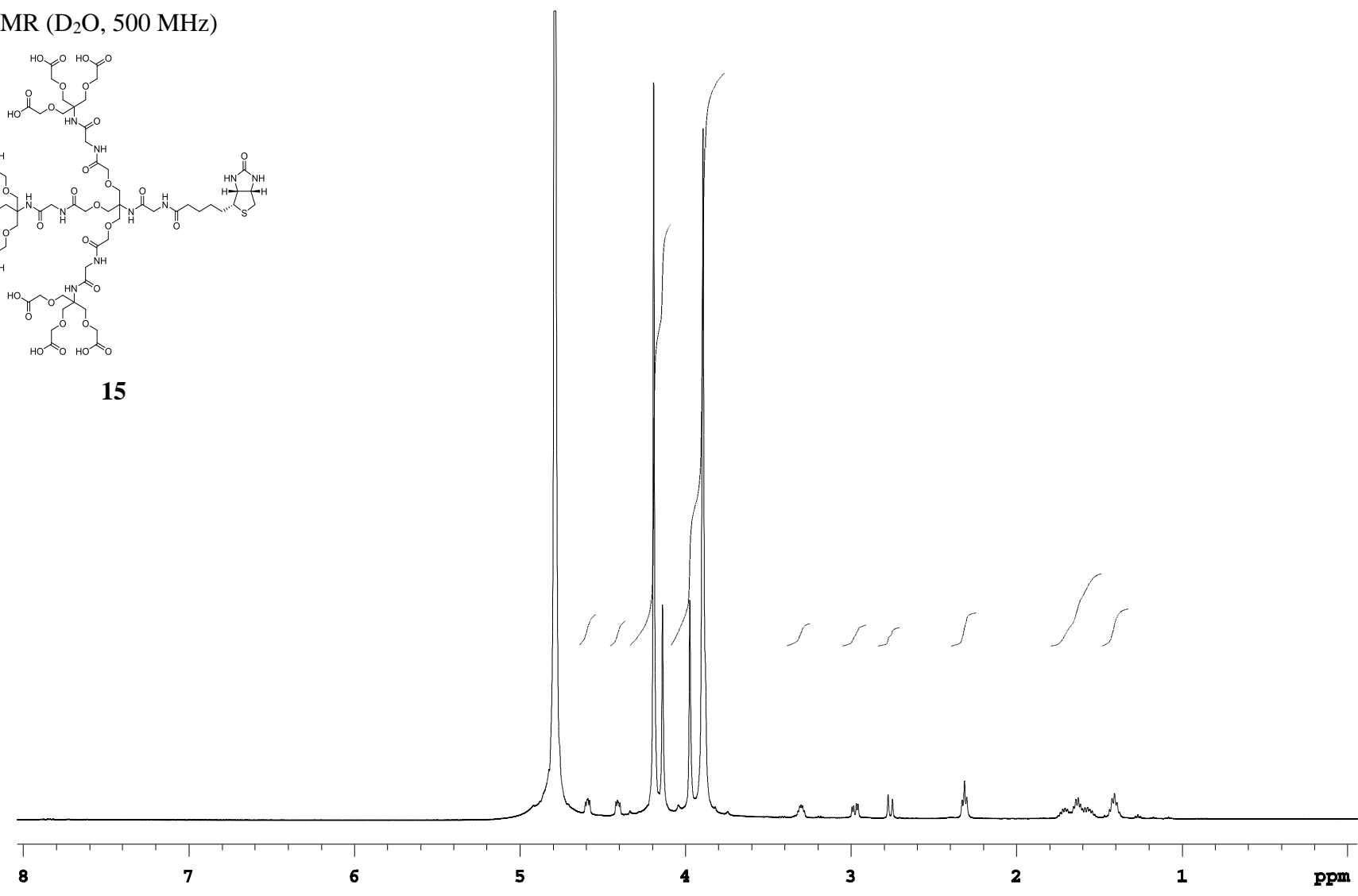
**14**



<sup>1</sup>H NMR (D<sub>2</sub>O, 500 MHz)

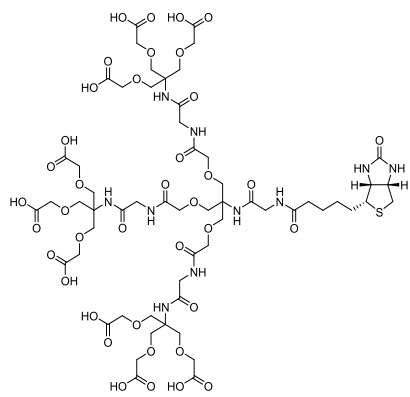


**15**

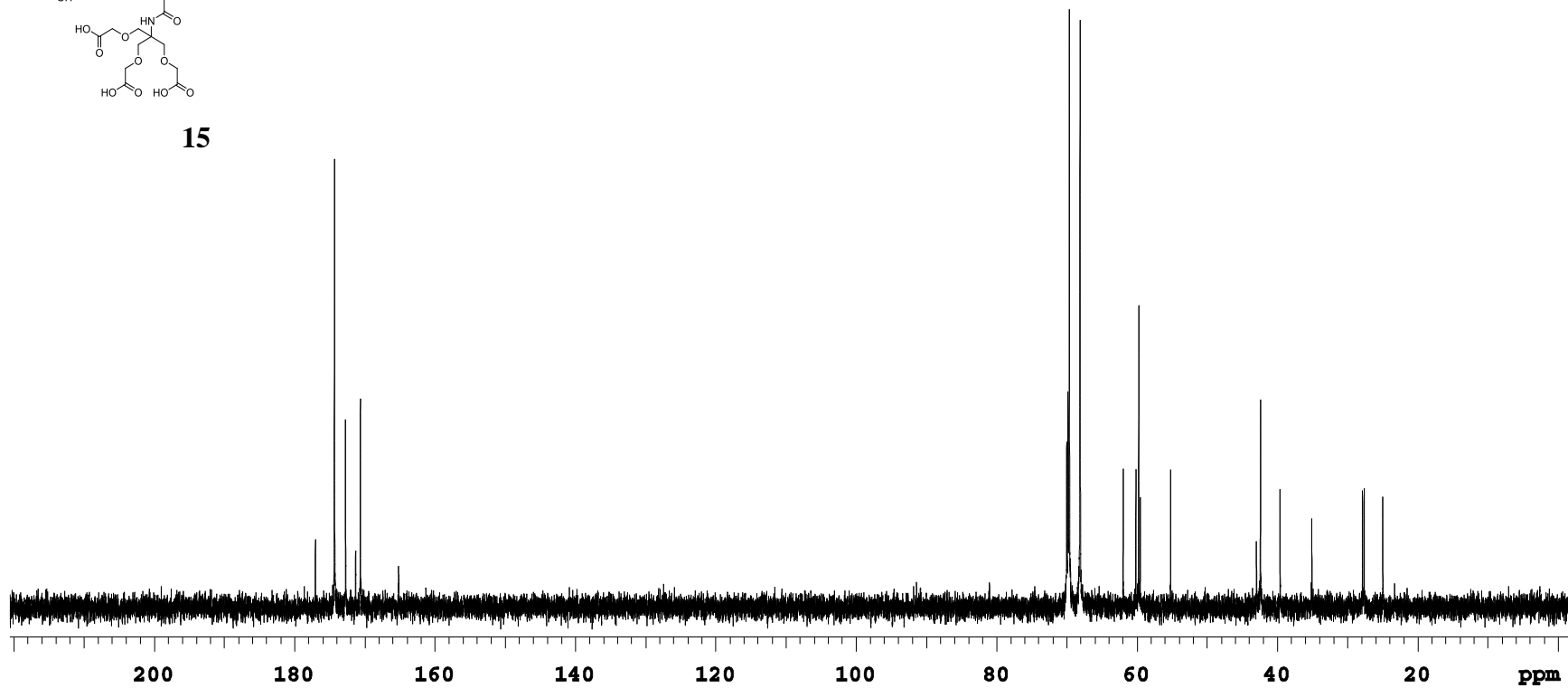


SI-14

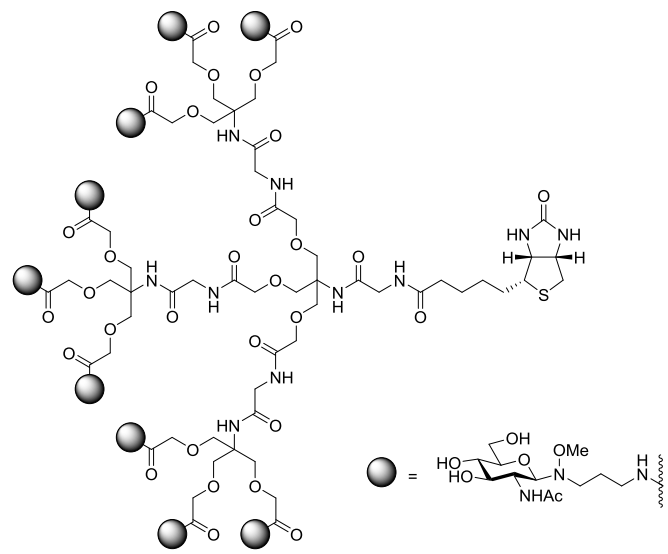
$^{13}\text{C}$  NMR ( $\text{D}_2\text{O}$ , 125 MHz)



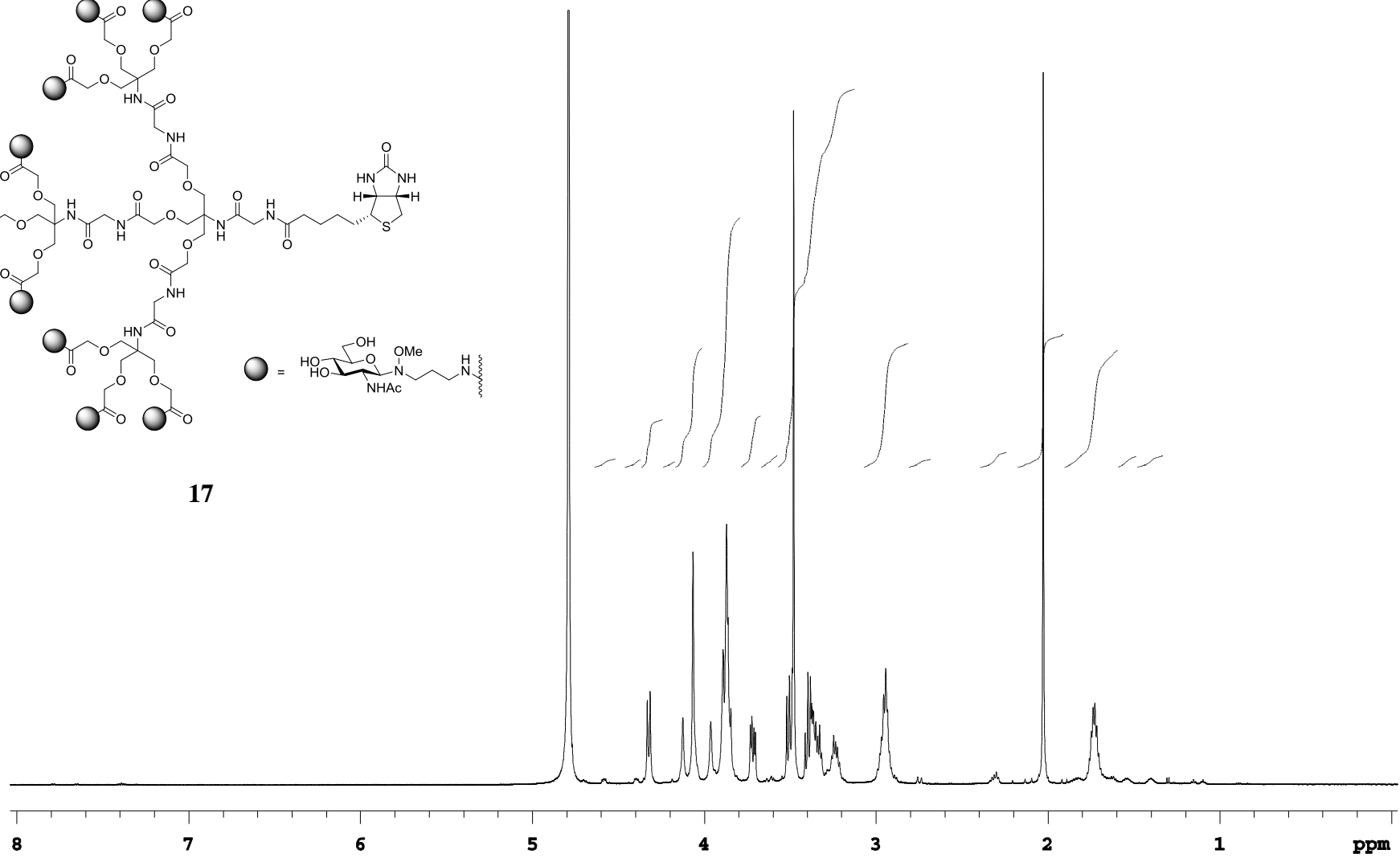
**15**



$^1\text{H}$  NMR ( $\text{D}_2\text{O}$ , 600 MHz)



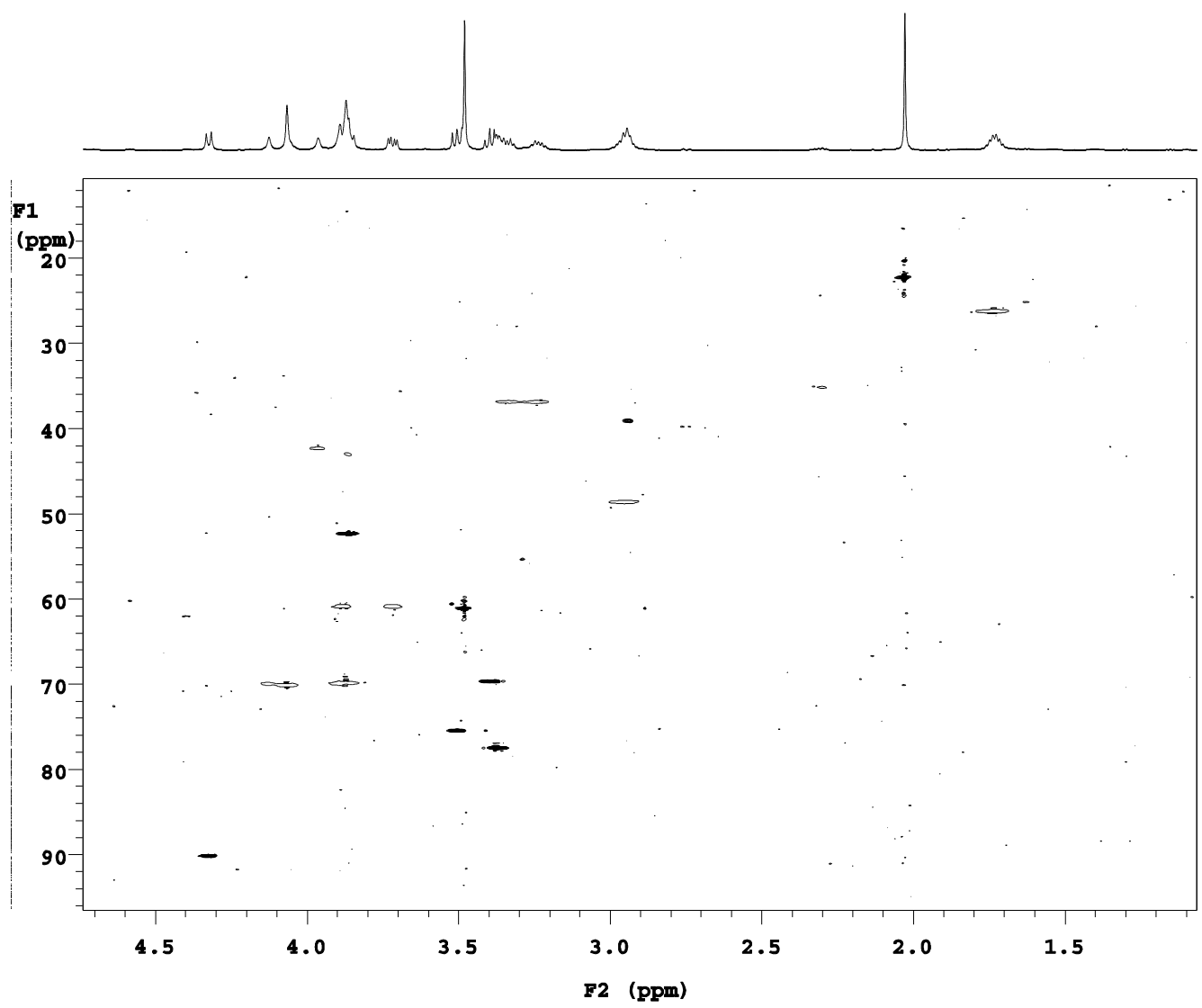
17





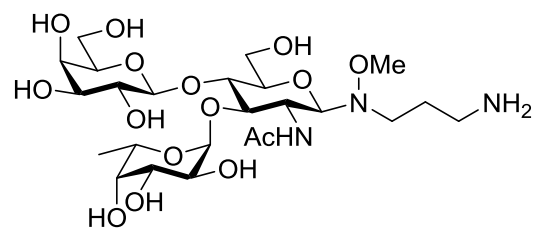
$^1\text{H}$  NMR ( $\text{D}_2\text{O}$ , 600 MHz)

HSQC 17

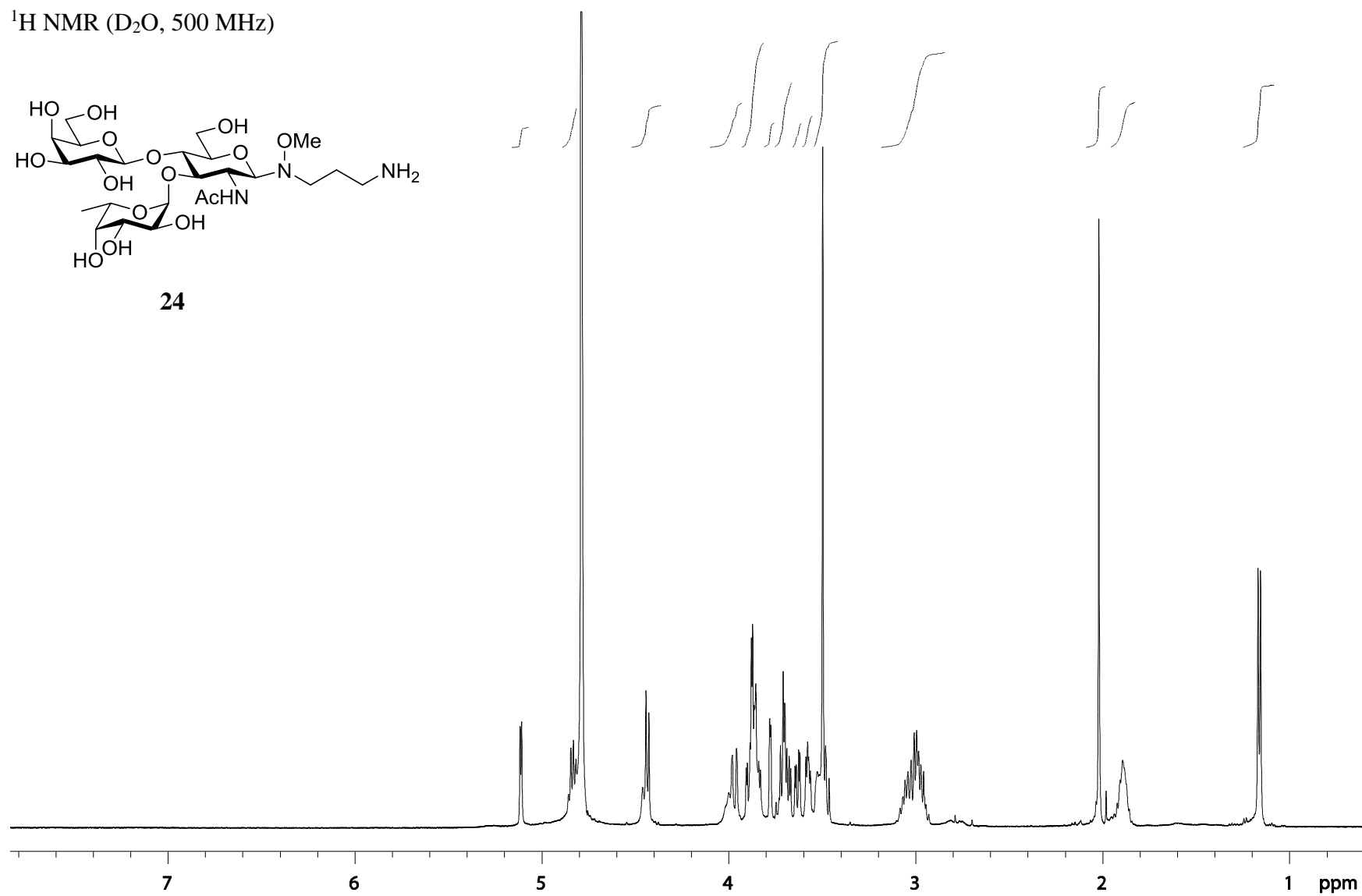


SI-17

$^1\text{H}$  NMR ( $\text{D}_2\text{O}$ , 500 MHz)

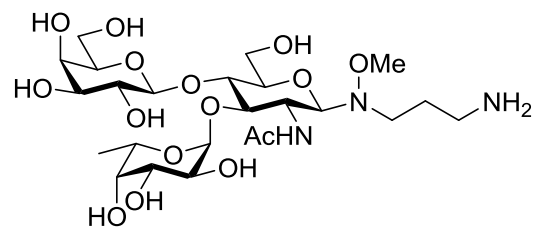


24

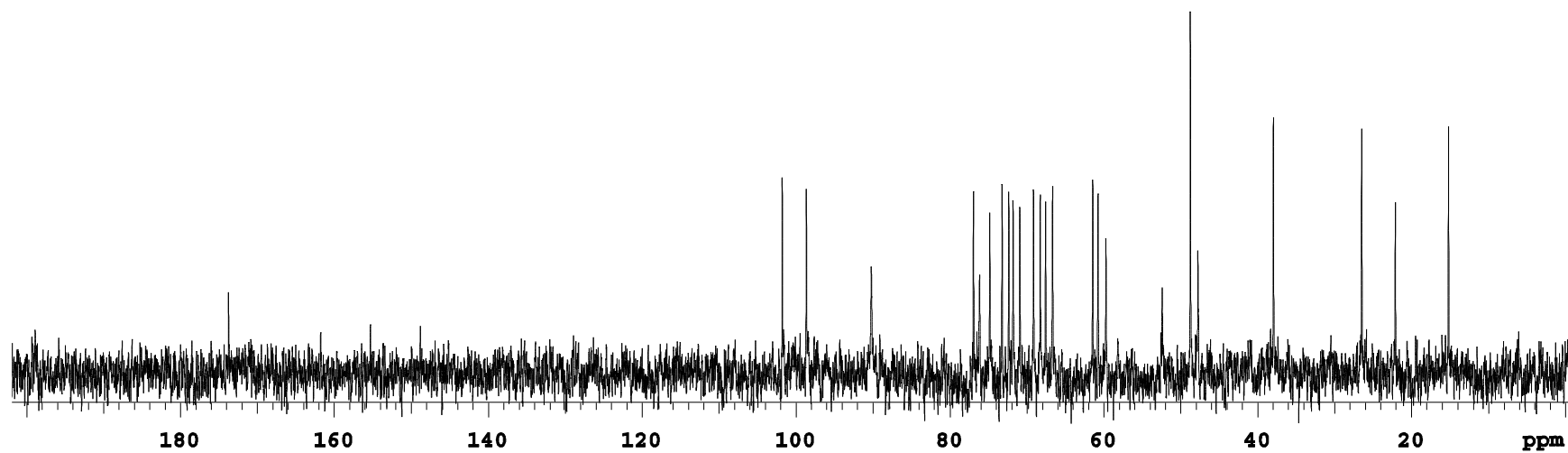


SI-18

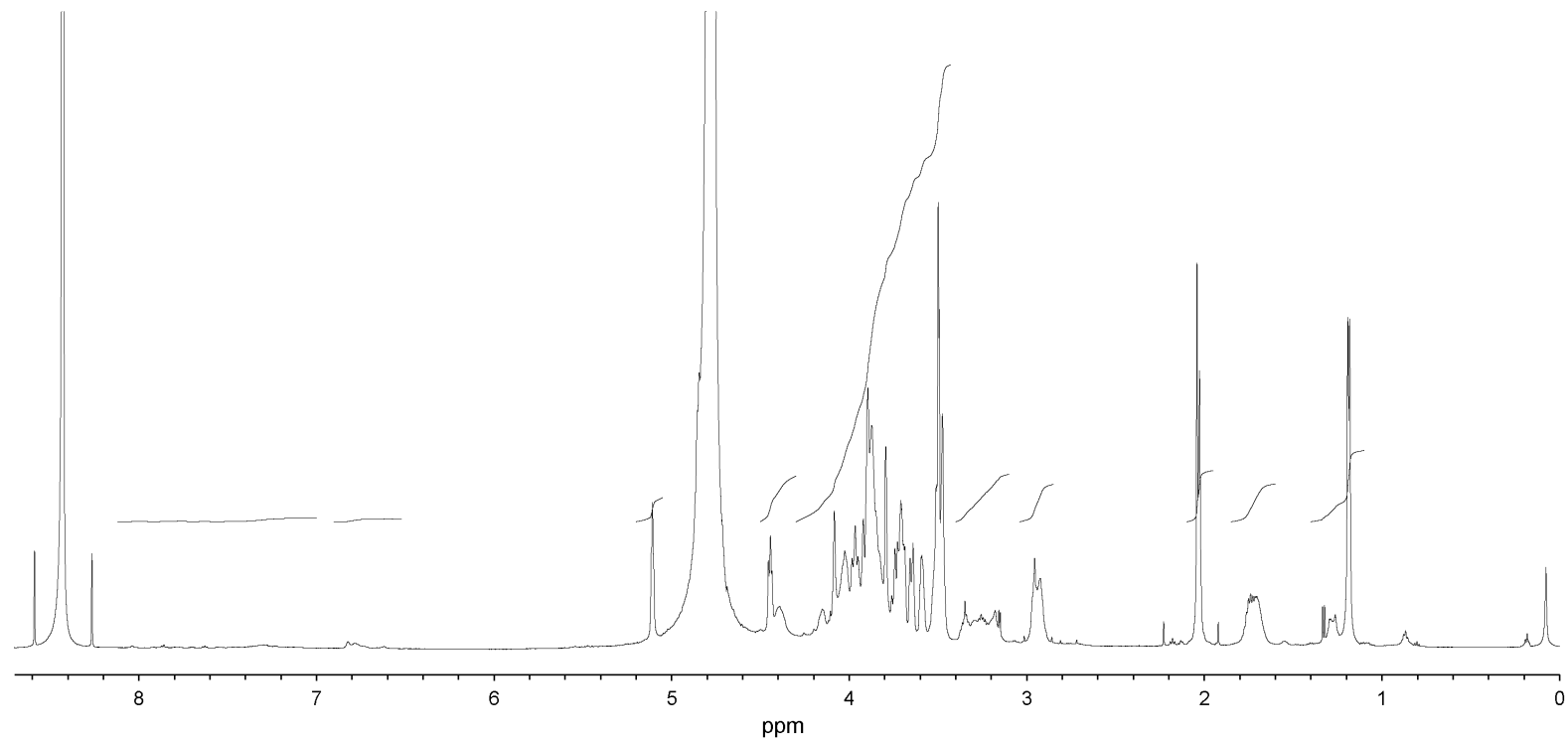
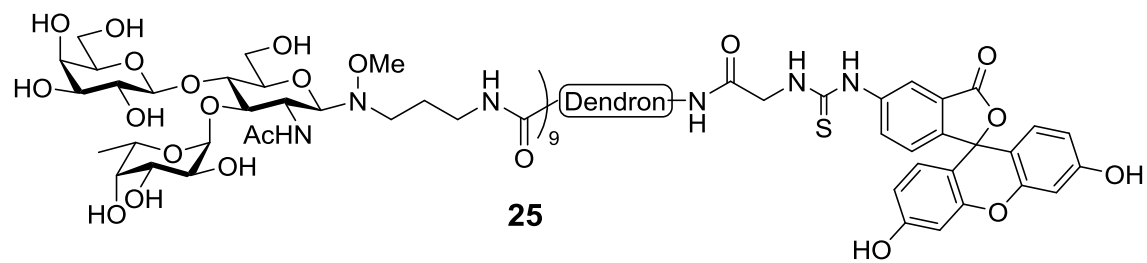
$^{13}\text{C}$  NMR ( $\text{D}_2\text{O}$ , 125 MHz)



24



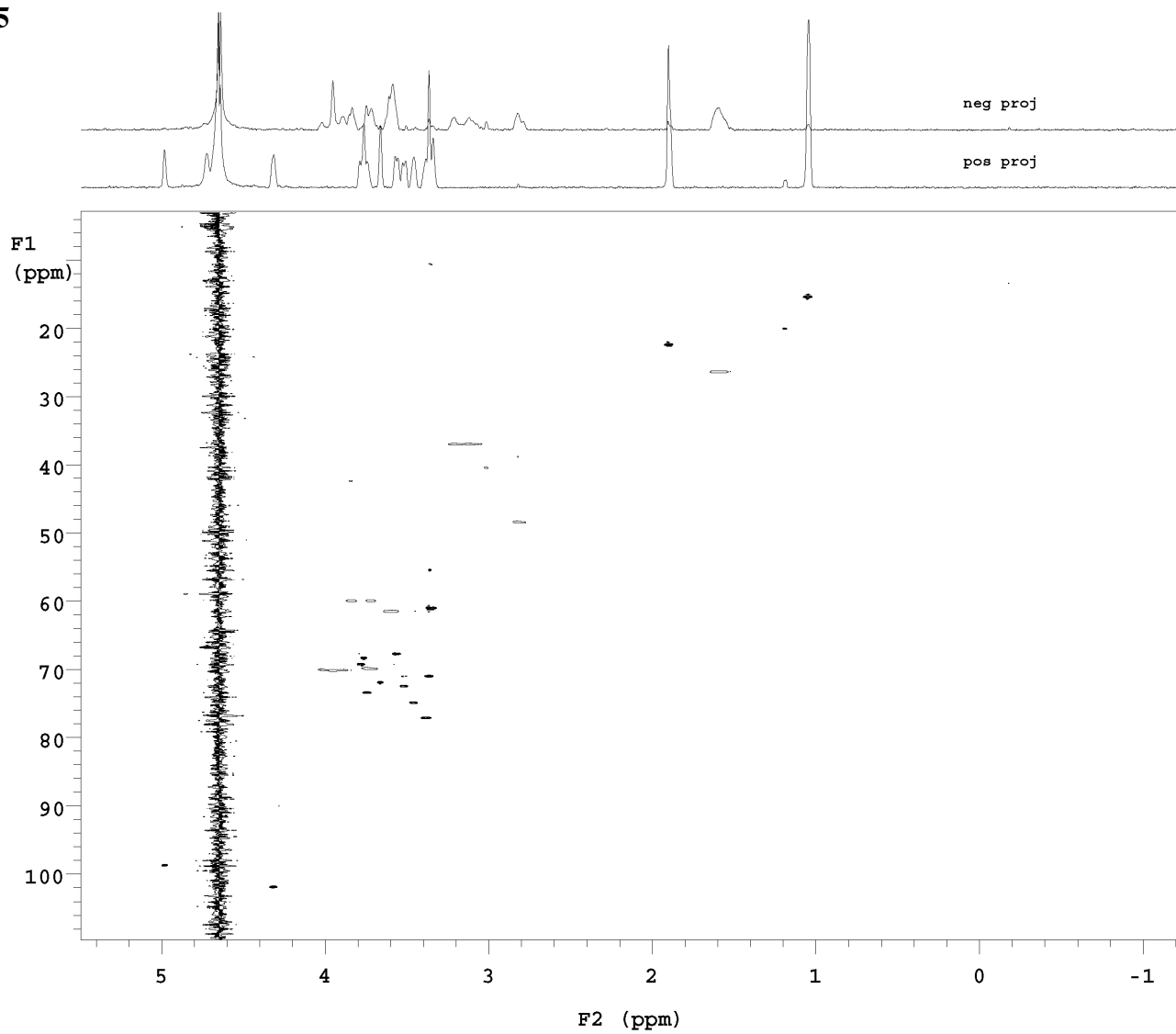
$^1\text{H}$  NMR ( $\text{D}_2\text{O}$ , 600 MHz)



SI-20

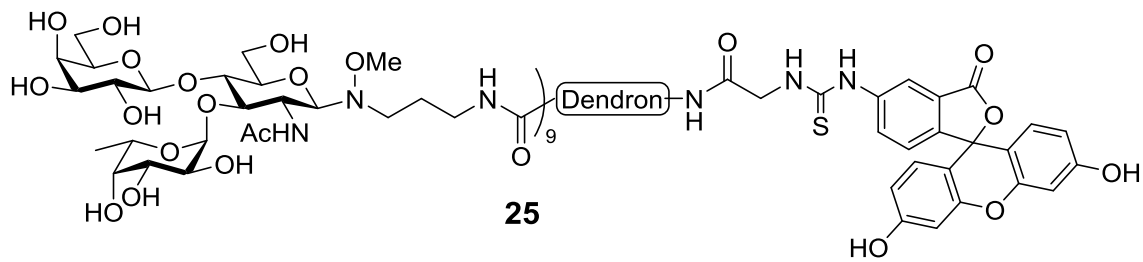
HSQC (D<sub>2</sub>O, 600 MHz)

Glycodendron **25**

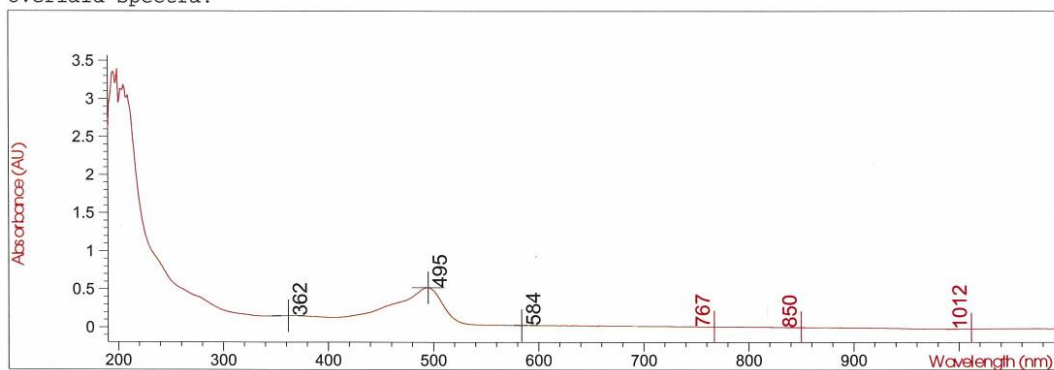


SI-21

# UV-VIS absorbance



Overlaid Spectra:



#	Name	Peaks (nm)	Abs (AU)	Valleys (nm)	Abs (AU)
1		495.0	0.52230	1012.0	-2.0363E-2
1		362.0	0.15248	850.0	1.0519E-3
1		584.0	2.7593E-2	767.0	8.9579E-3
2		495.0	0.52230	1012.0	-2.0363E-2
2		362.0	0.15248	850.0	1.0519E-3
2		584.0	2.7593E-2	767.0	8.9579E-3