

Supplementary Materials

Differential effects of linkers on the activity of amphiphilic tobramycin antifungals

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Table S1: The % hemolysis caused by TOB derivatives 3 , 4 , 7a , 7b , and 9 as well as AmB against mRBCs with the error bars ($\pm$ SDEV). ^a							
	Compound #						
Concentration (μ g/mL)	3	4	7a	7b	9	TOB	AmB
0.48	0	0	0	0	0	4.7 $\pm$ 3.9	0
0.975	2.5 $\pm$ 2.3	0	0	0	0	9.3 $\pm$ 3.5	0
1.95	6.0 $\pm$ 3.5	6.6 $\pm$ 3.5	15.6 $\pm$ 9.3	14.8 $\pm$ 3.5	2.5 $\pm$ 1.5	15.9 $\pm$ 1.9	1.7 $\pm$ 0.1
3.9	12.0 $\pm$ 1.9	6.0 $\pm$ 1.9	0	13.4 $\pm$ 6.2	4.1 $\pm$ 1.5	15.9 $\pm$ 8.1	3.4 $\pm$ 0.6
7.8	18.6 $\pm$ 6.6	10.7 $\pm$ 3.1	7.4 $\pm$ 3.1	24.6 $\pm$ 8.1	10.1 $\pm$ 4.6	11.2 $\pm$ 4.6	3.7 $\pm$ 0.7
15.6	46.2 $\pm$ 2.3	15.3 $\pm$ 5.0	14.0 $\pm$ 5.4	40.8 $\pm$ 5.4	18.3 $\pm$ 5.4	15.3 $\pm$ 5.0	31.9 $\pm$ 5.7
31.3	55.5 $\pm$ 3.9	24.9 $\pm$ 2.3	14.8 $\pm$ 1.9	55.5 $\pm$ 5.4	26.0 $\pm$ 11.6	15.3 $\pm$ 2.7	80.2 $\pm$ 8.5
62.5	67.0 $\pm$ 4.6	31.2 $\pm$ 6.6	14.8 $\pm$ 0.4	74.1 $\pm$ 0.8	31.5 $\pm$ 1.5	21.1 $\pm$ 9.3	90.3 $\pm$ 5.7

^a These are the values that were used to generate Fig. 1.

Figures S1-S36:

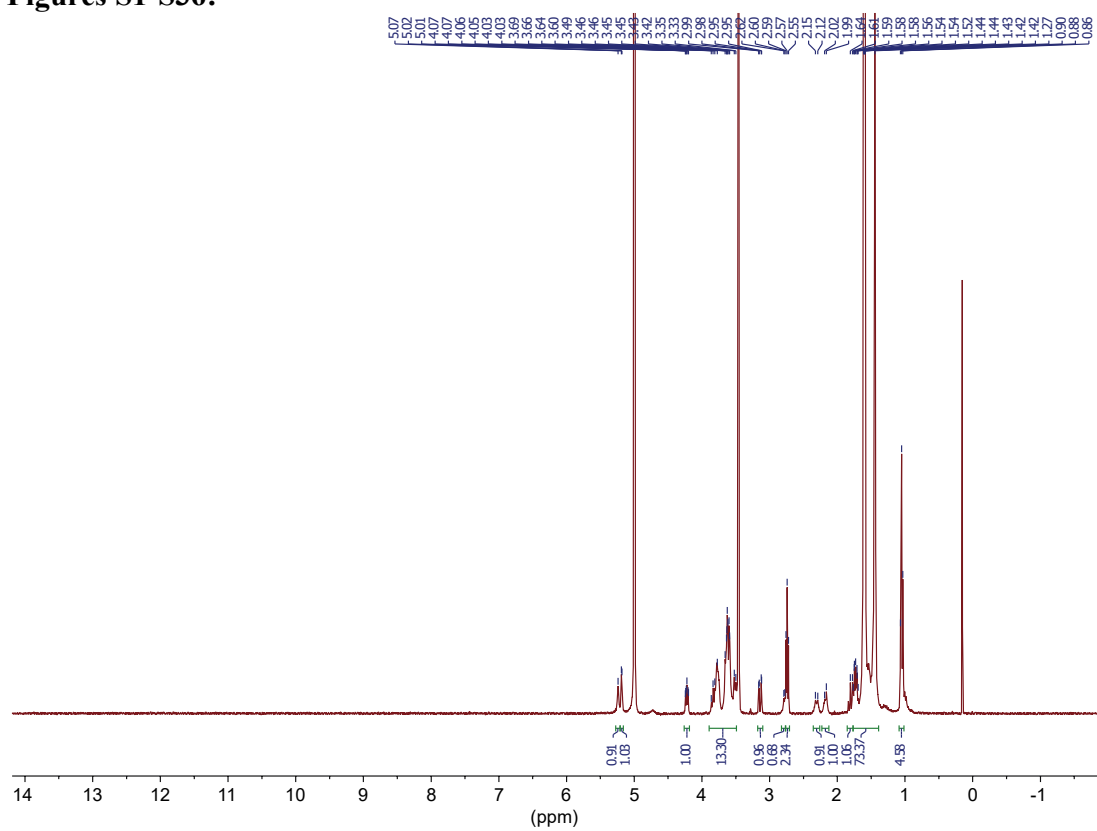


Fig. S1: ^1H NMR spectrum for compound **2** in CD_3OD (400 MHz).

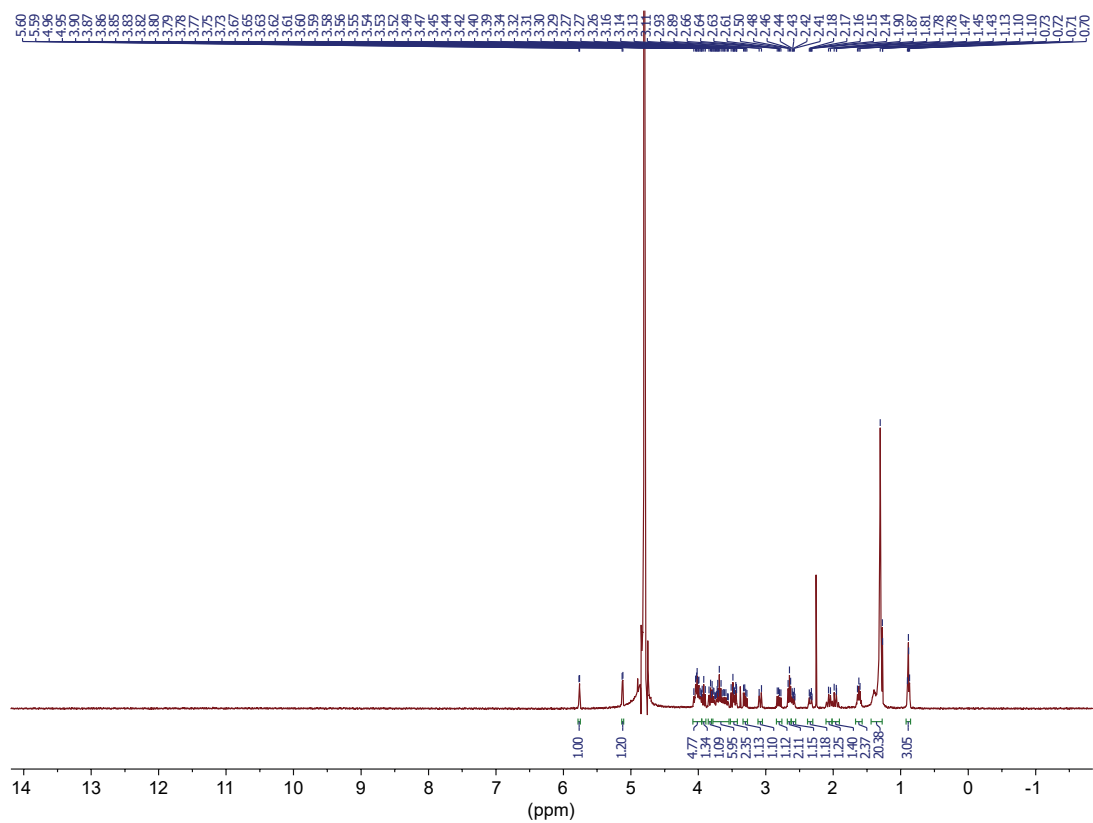


Fig. S2: ^1H NMR spectrum for compound **3** in D_2O (400 MHz).

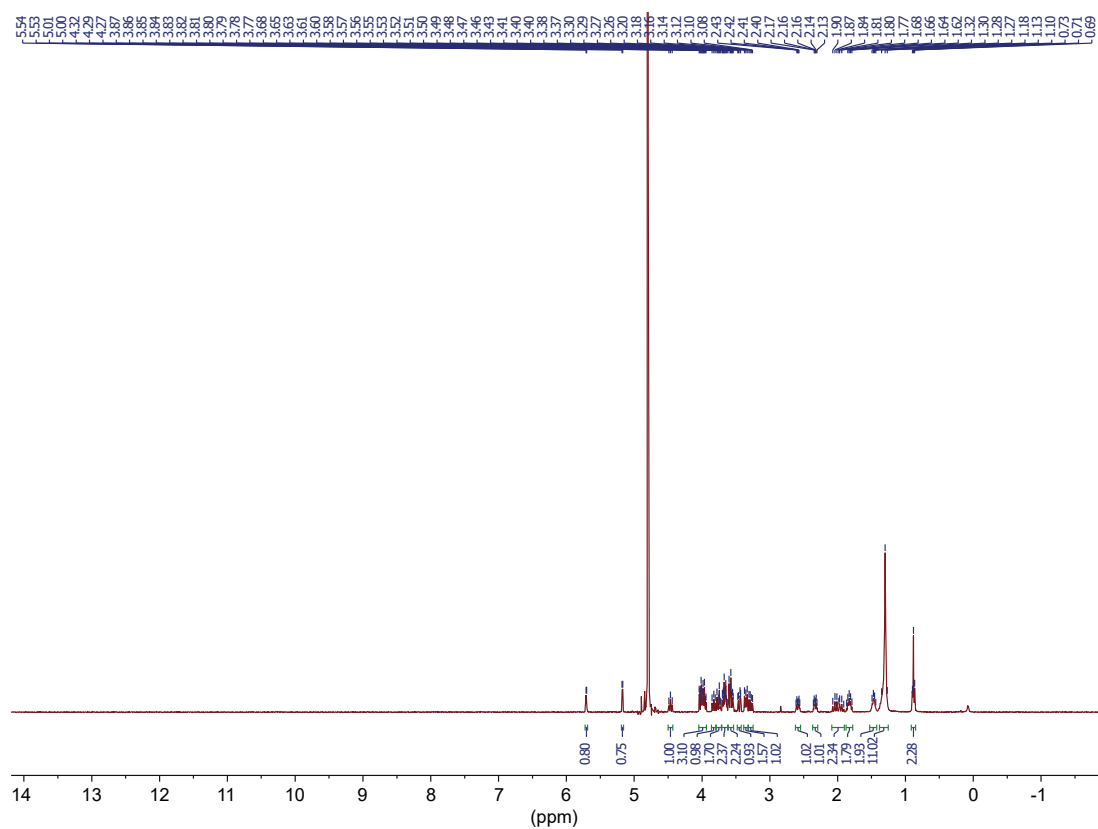
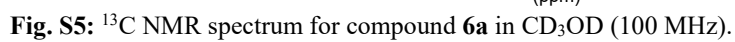


Fig. S3: ^1H NMR spectrum for compound **4** in D_2O (400 MHz).



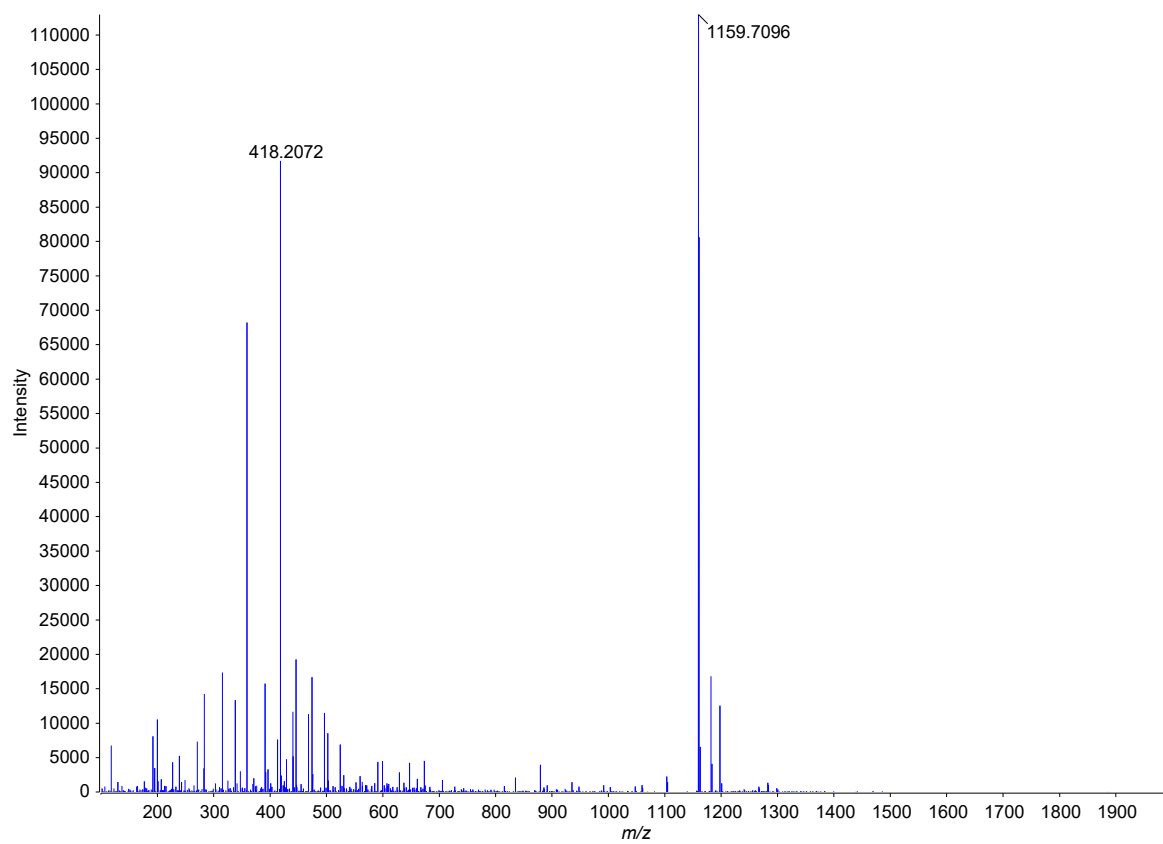


Fig. S6: Mass spectrum for compound **6a**.

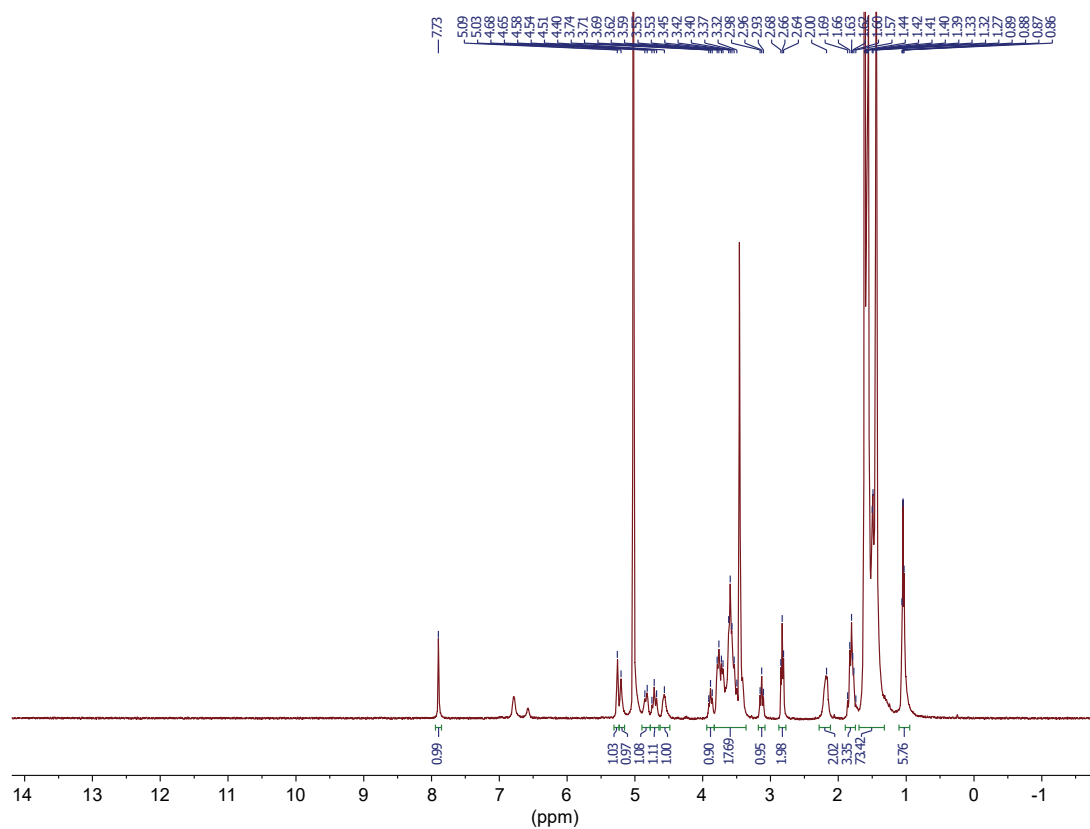


Fig. S7: ^1H NMR spectrum for compound **6b** in CD_3OD (400 MHz).

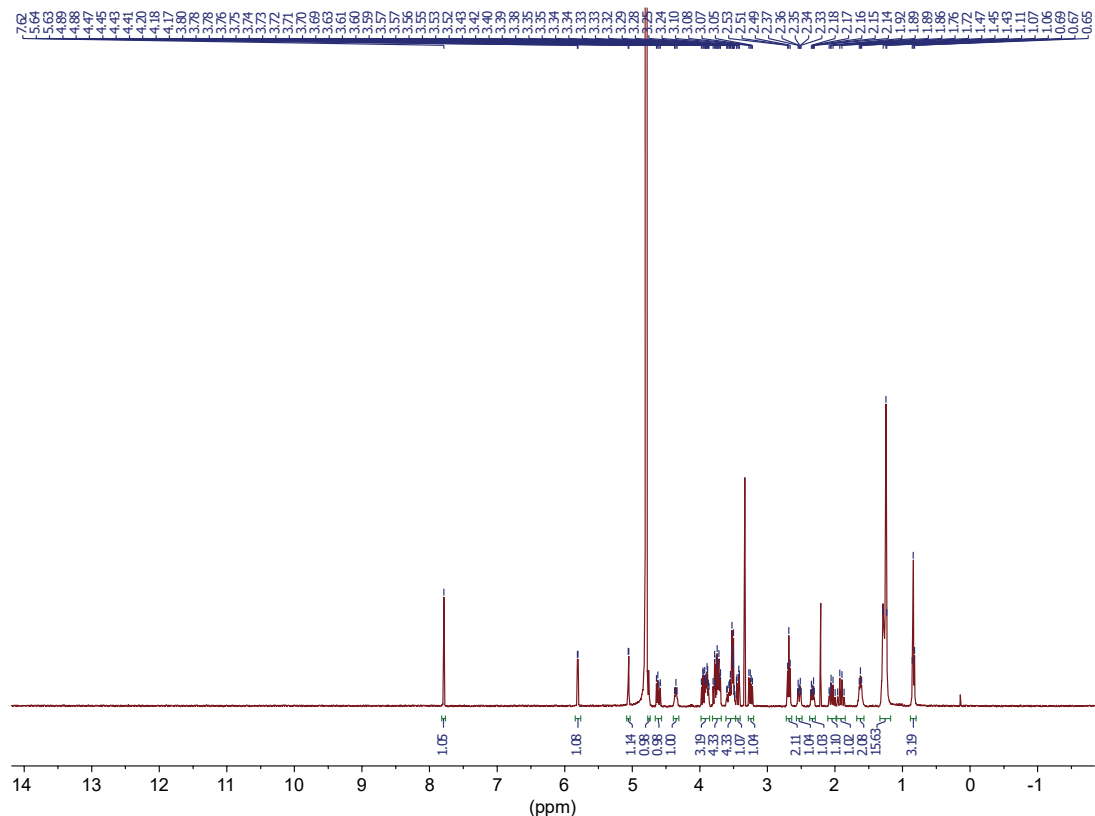


Fig. S8: ^1H NMR spectrum for compound **7a** in D_2O (400 MHz).

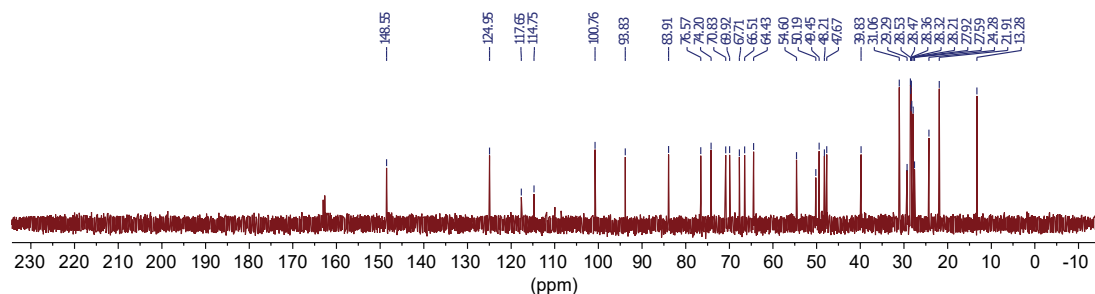


Fig. S9: ^{13}C NMR spectrum for compound **7a** in D_2O (100 MHz).

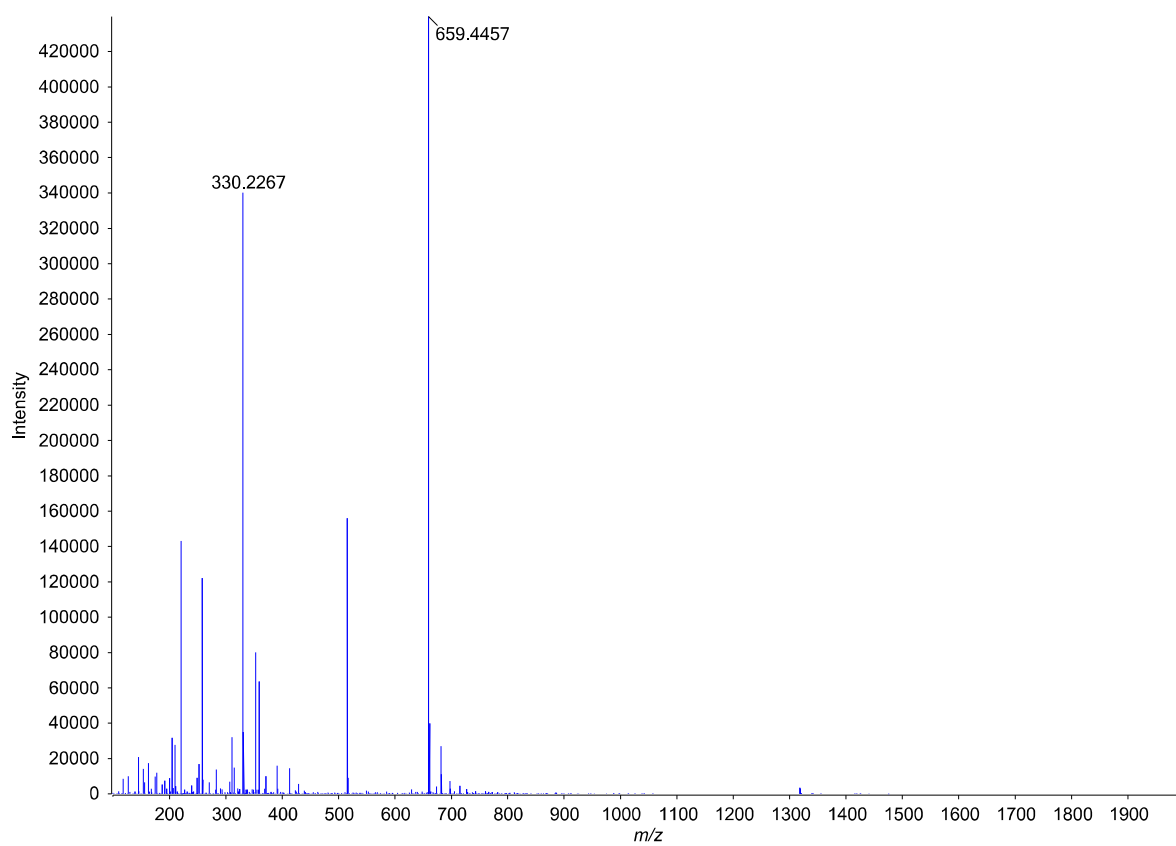


Fig. S10: Mass spectrum for compound **7a**.

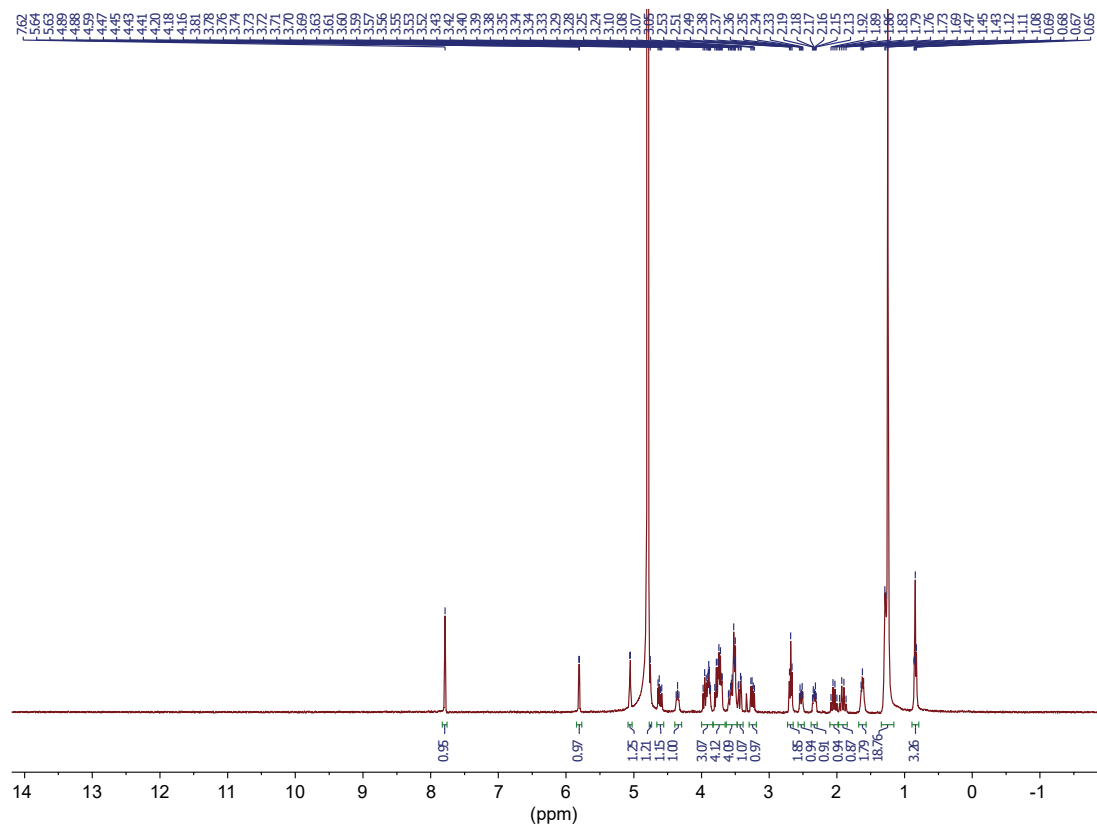


Fig. S11: ^1H NMR spectrum for compound **7b** in D_2O (400 MHz).

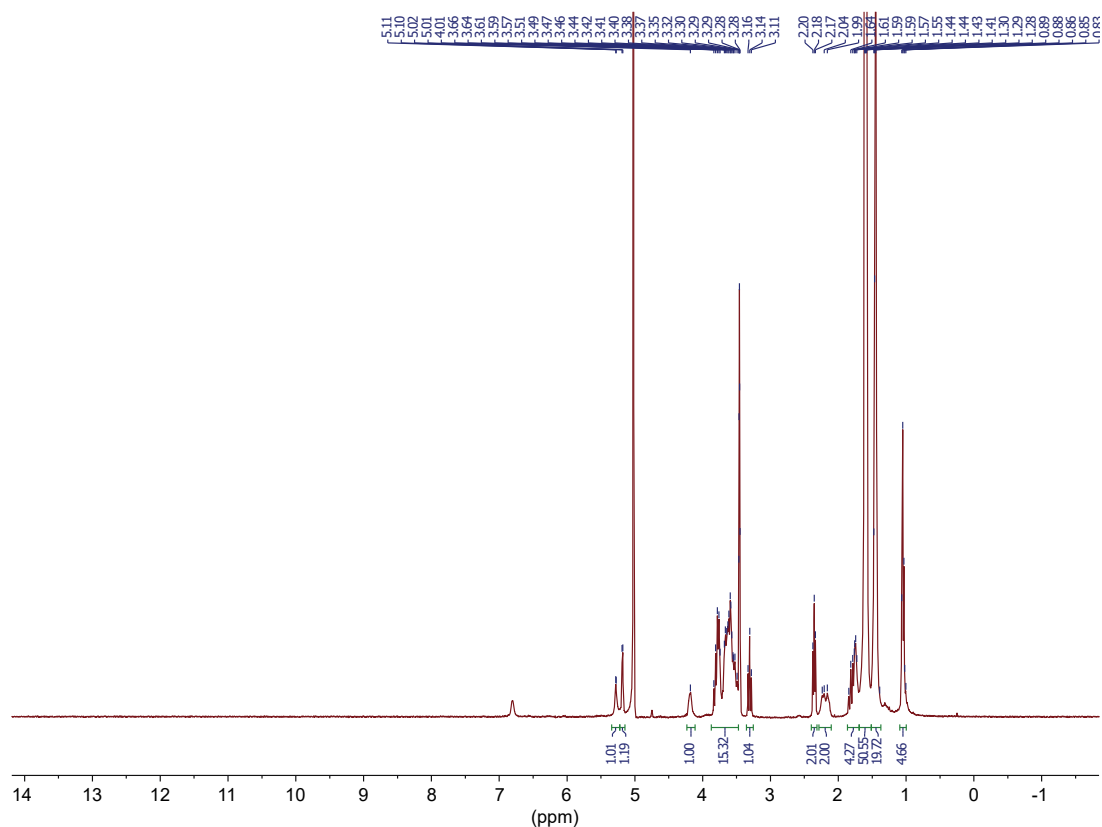


Fig. S12: ¹H NMR spectrum for compound **8** in CD₃OD (400 MHz).

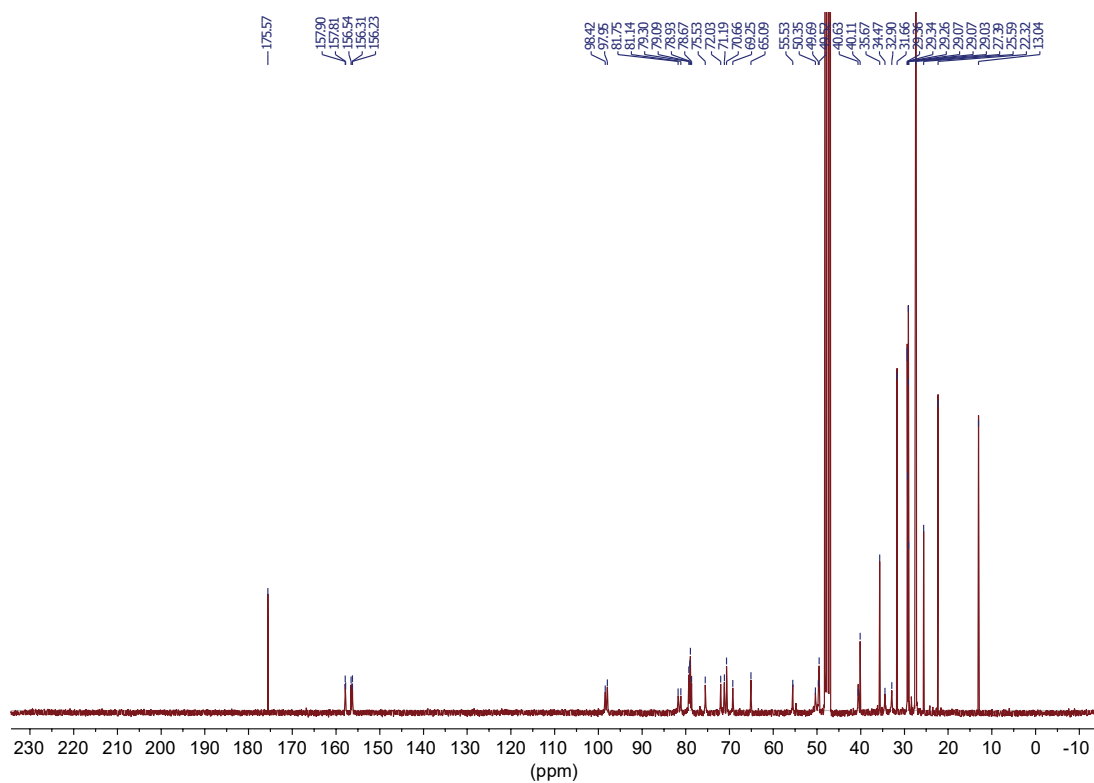


Fig. S13: ¹³C NMR spectrum for compound **8** in CD₃OD (100 MHz).

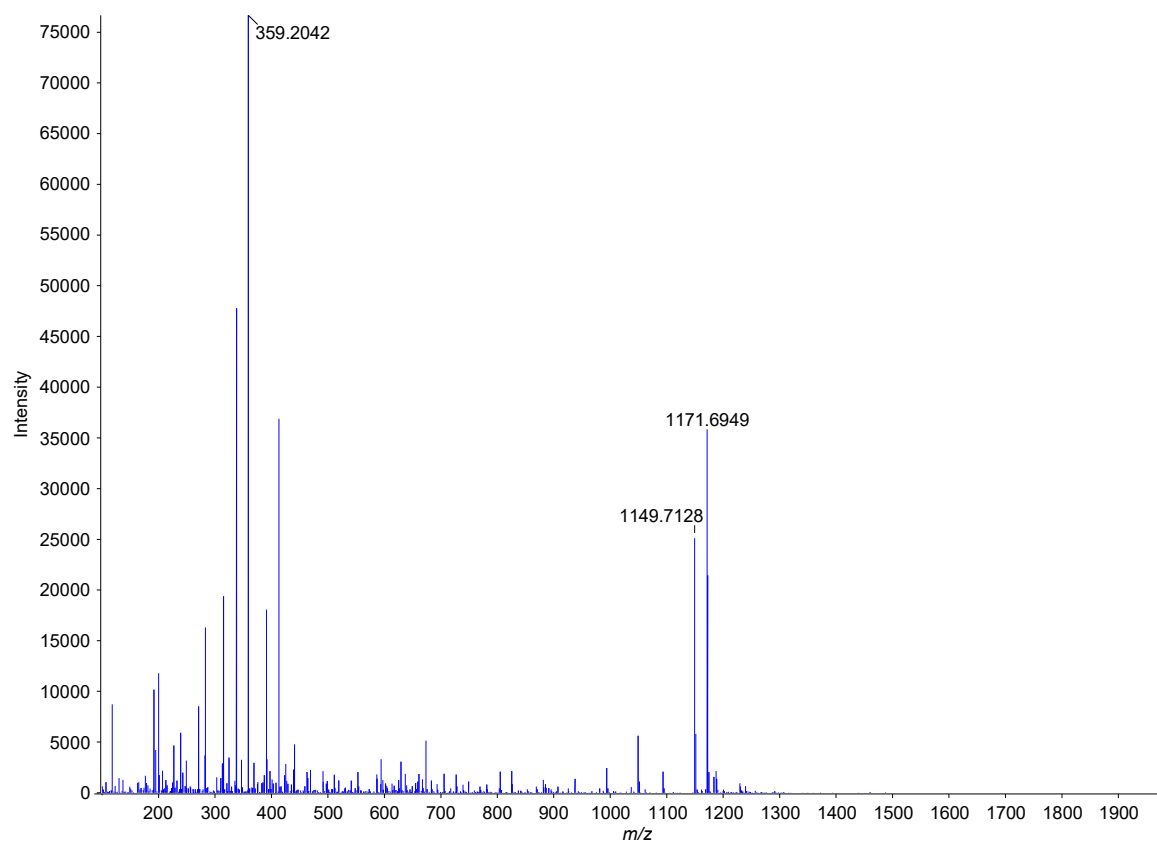


Fig. S14: Mass spectrum for compound **8**.

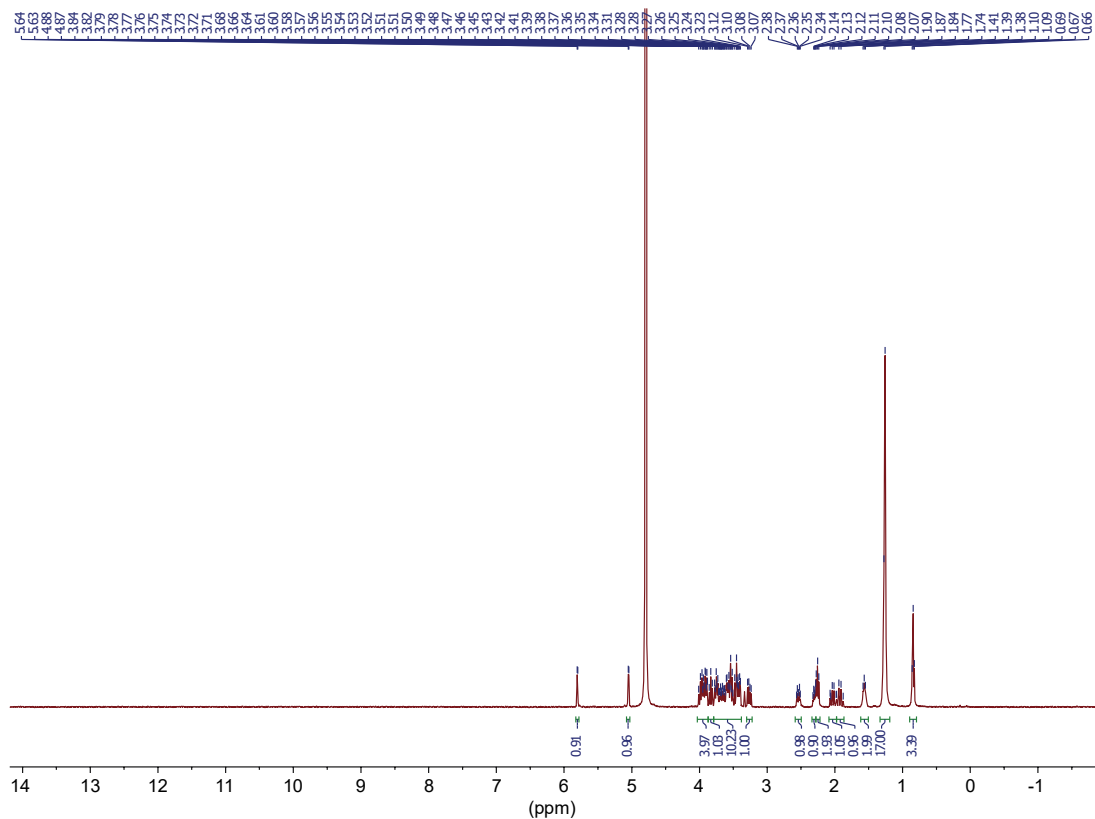


Fig. S15: ^1H NMR spectrum for compound **9** in D_2O (400 MHz).

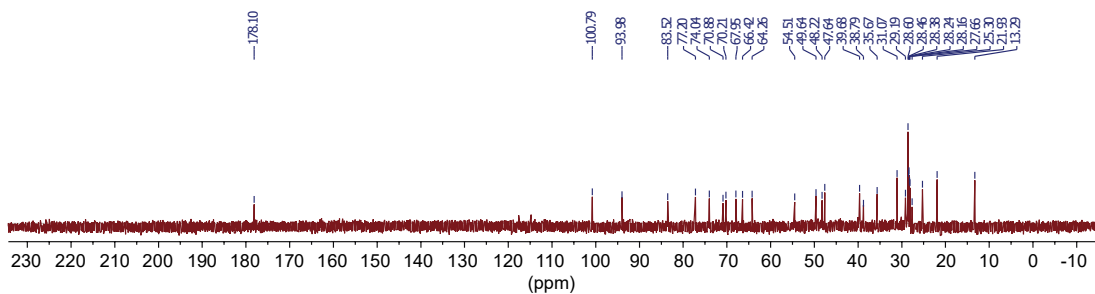


Fig. S16: ^{13}C NMR spectrum for compound **9** in D_2O (100 MHz).

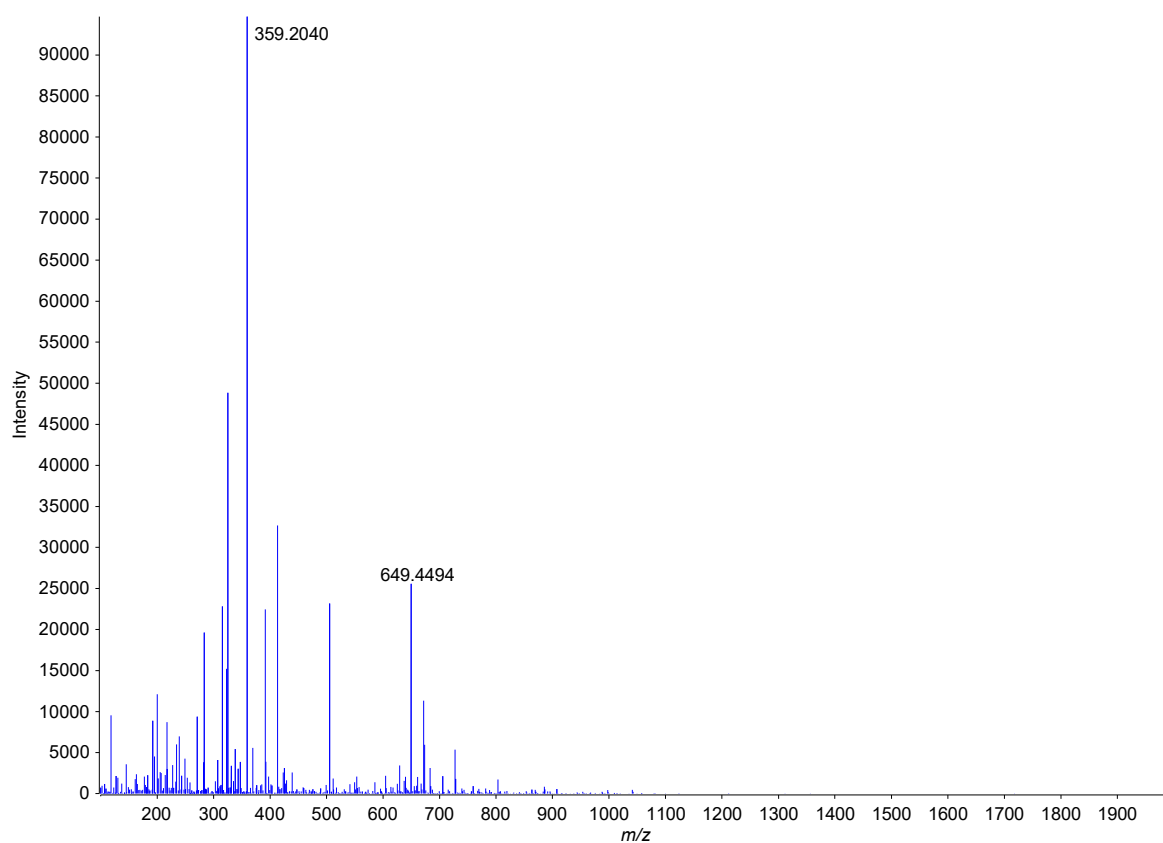


Fig. S17: Mass spectrum for compound **9**.

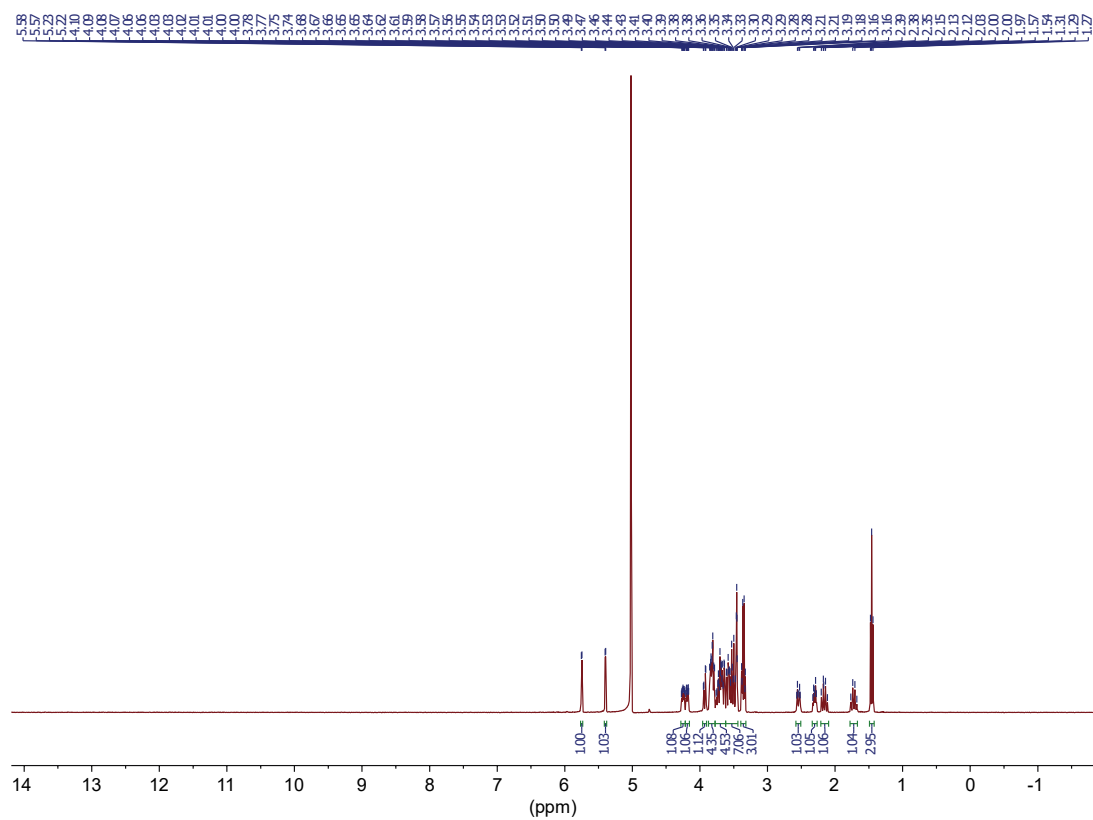


Fig. S18: ^1H NMR spectrum for compound **10** in CD_3OD (400 MHz).

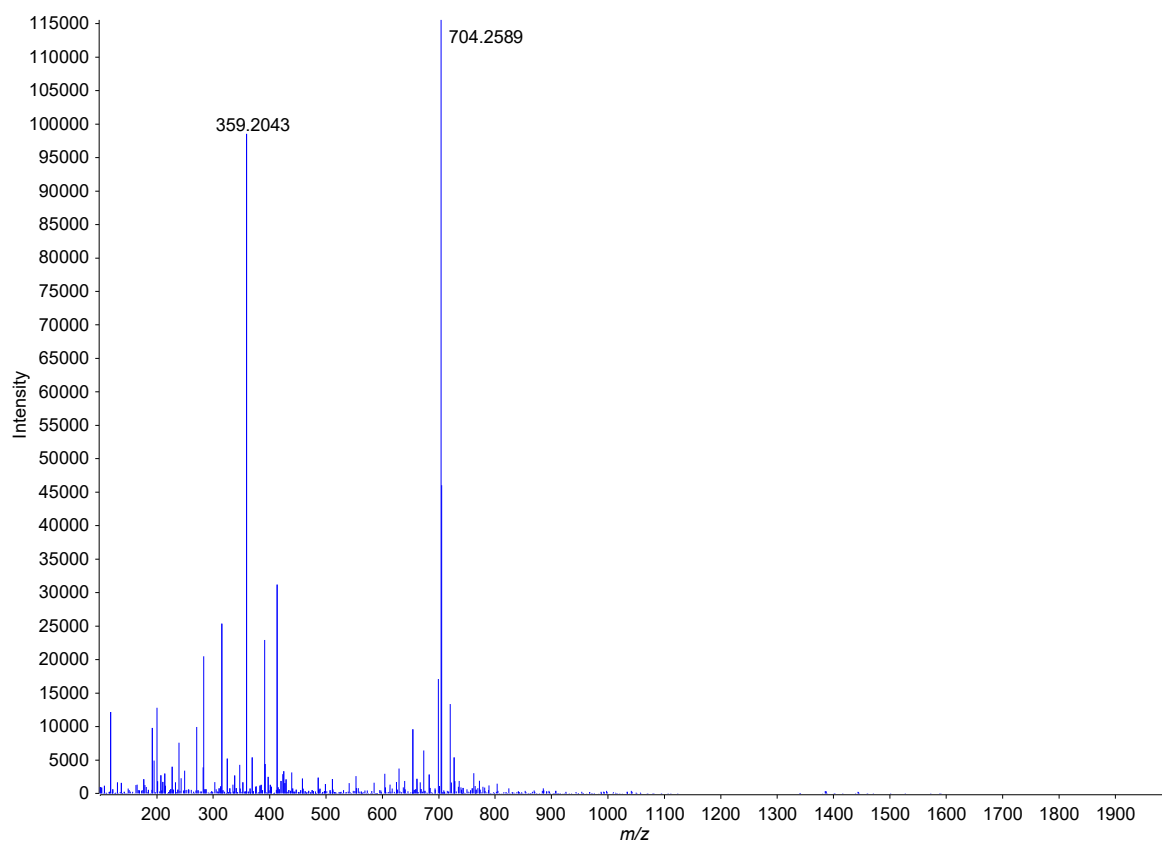


Fig. S21: Mass spectrum for compound **11**.

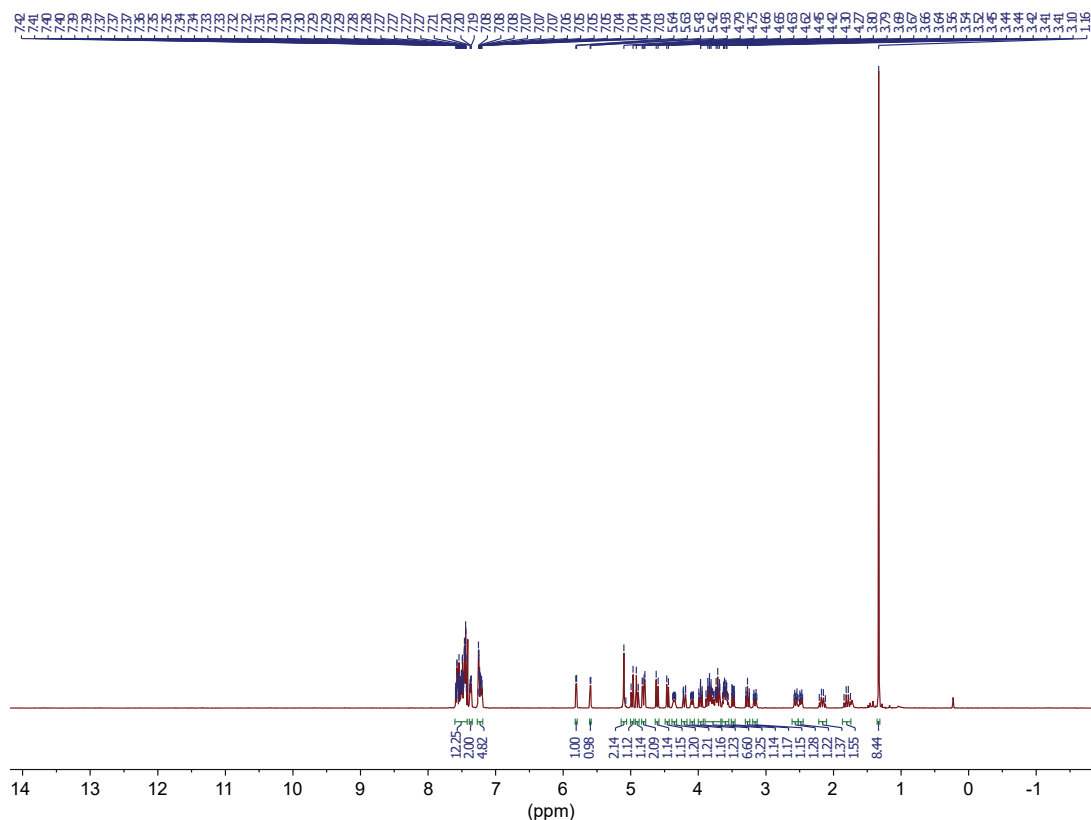


Fig. S22: ¹H NMR spectrum for compound **12** in CDCl₃ (400 MHz).

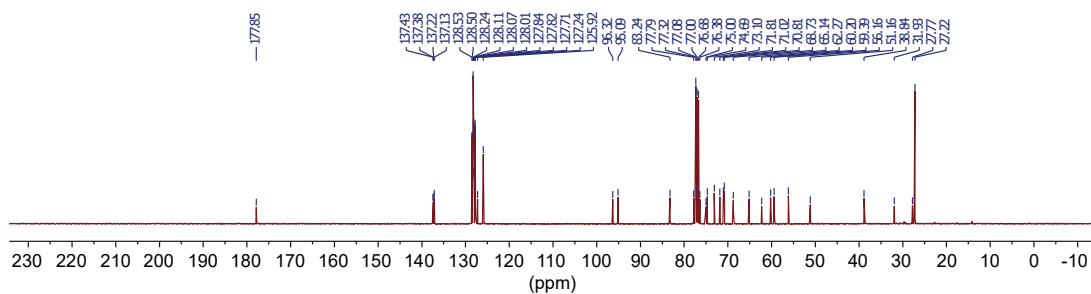
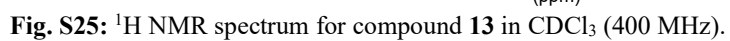
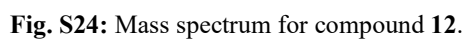


Fig. S23: ¹³C NMR spectrum for compound **12** in CDCl₃ (100 MHz).



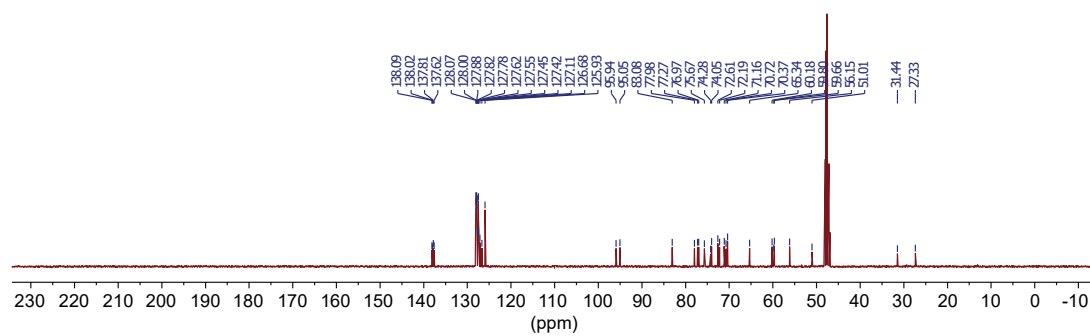


Fig. S26: ^{13}C NMR spectrum for compound **13** in CD_3OD (100 MHz).

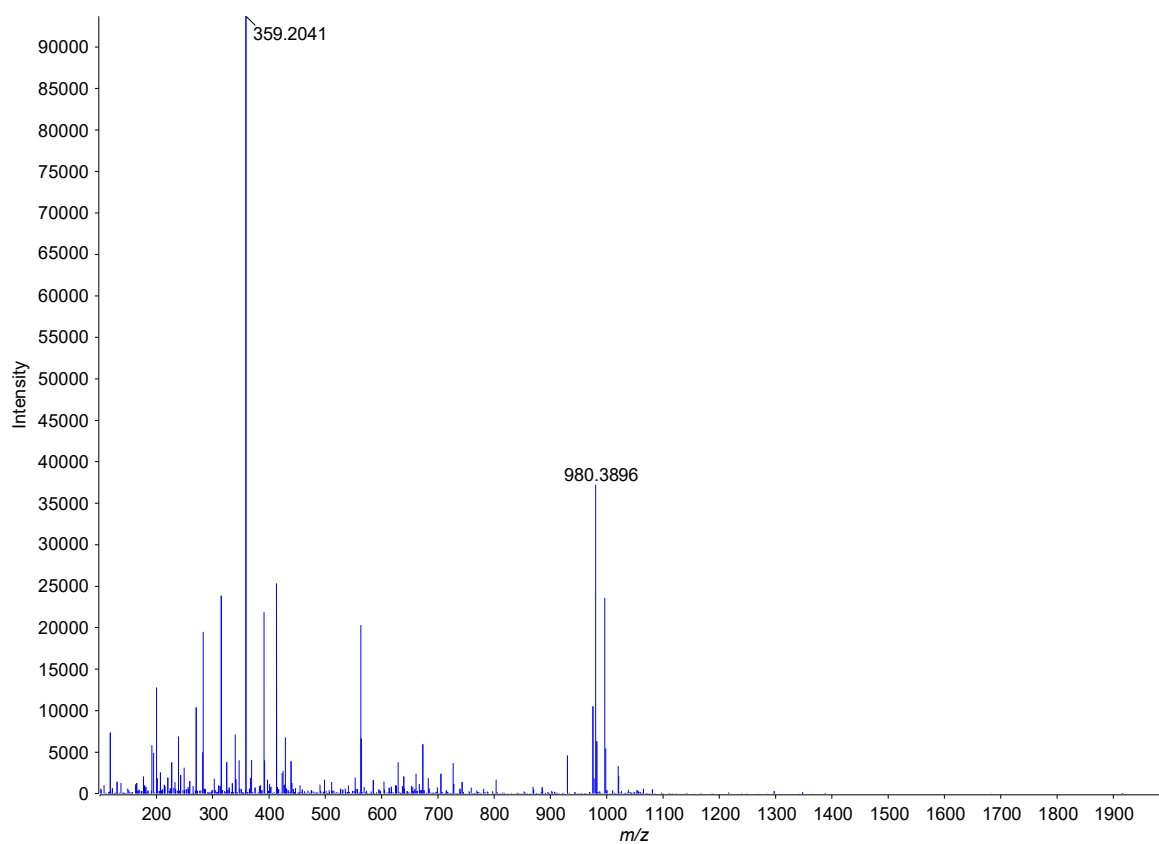


Fig. S27: Mass spectrum for compound **13**.

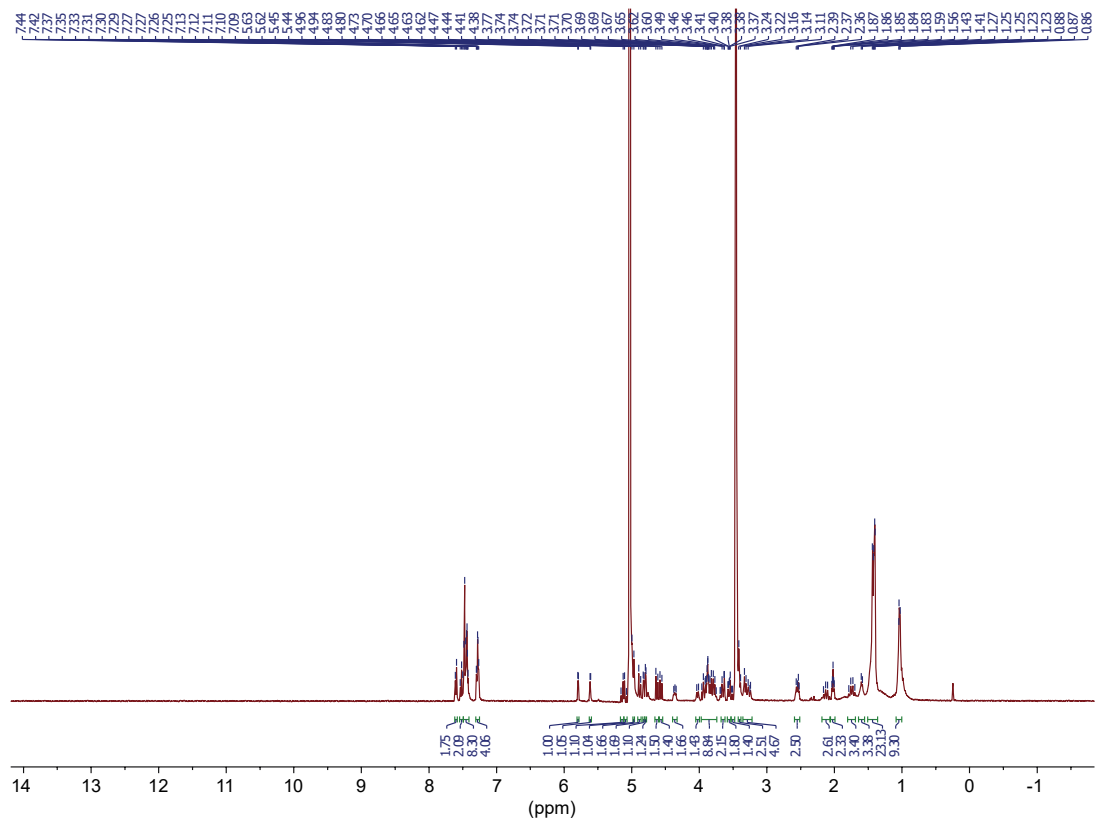


Fig. S28: ¹H NMR spectrum for compound **14** in CD₃OD (400 MHz).

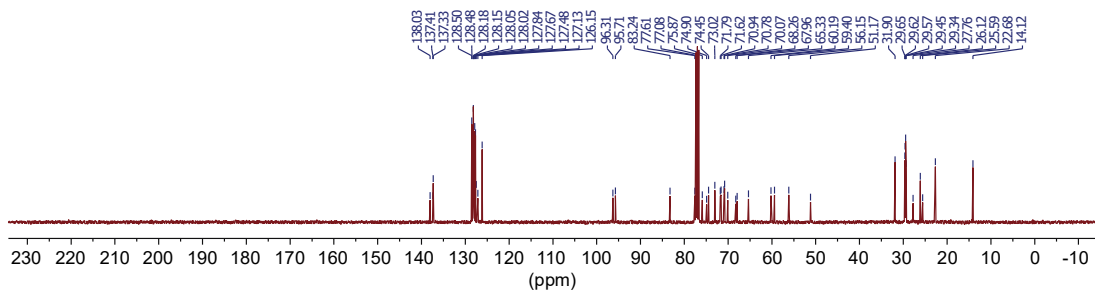


Fig. S29: ¹³C NMR spectrum for compound **14** in CDCl₃ (100 MHz).

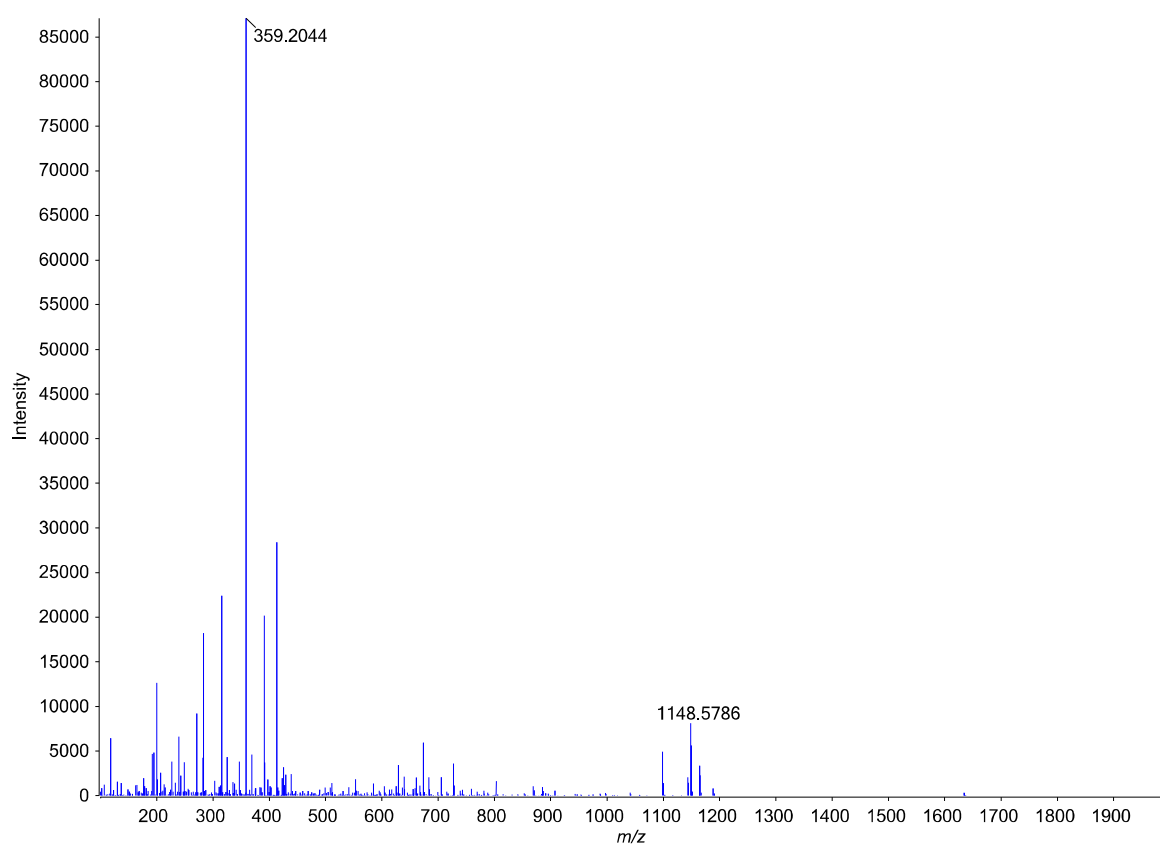


Fig. S30: Mass spectrum for compound **14**.

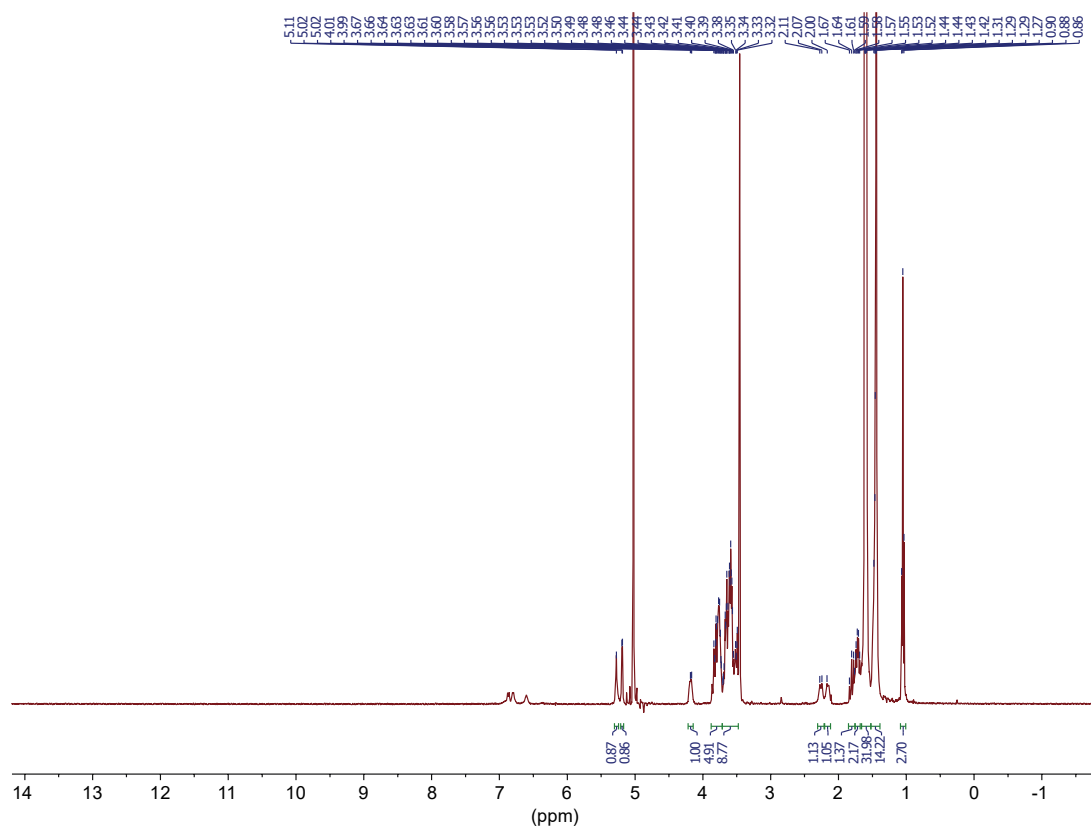


Fig. S31: ^1H NMR spectrum for compound **15** in CD_3OD (400 MHz).

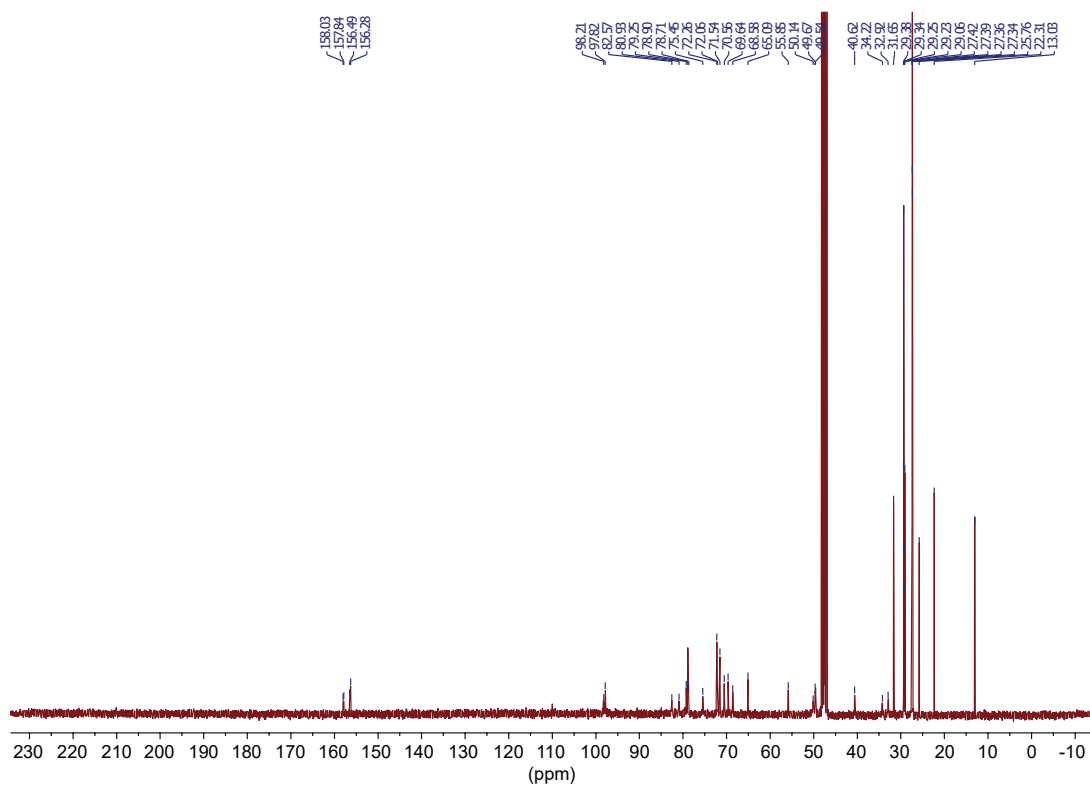


Fig. S32: ^{13}C NMR spectrum for compound **15** in CD_3OD (100 MHz).

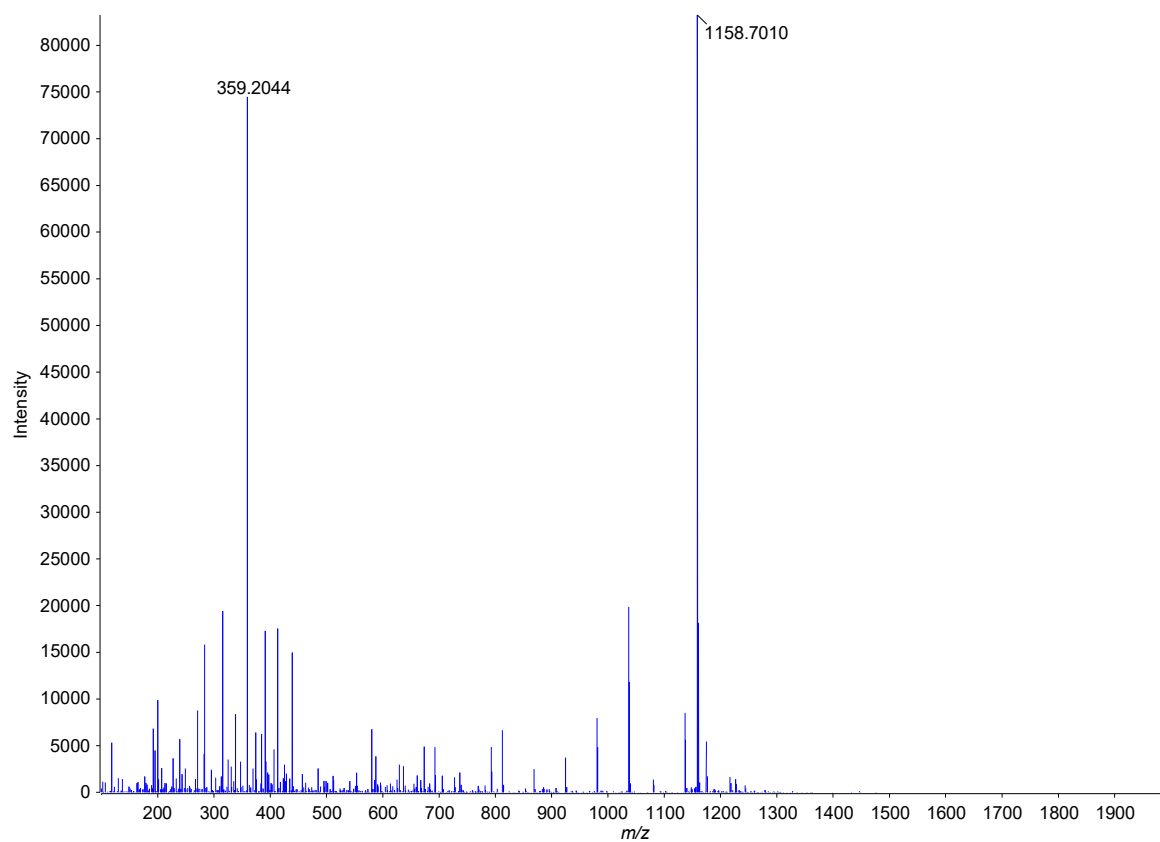


Fig. S33: Mass spectrum for compound **15**.

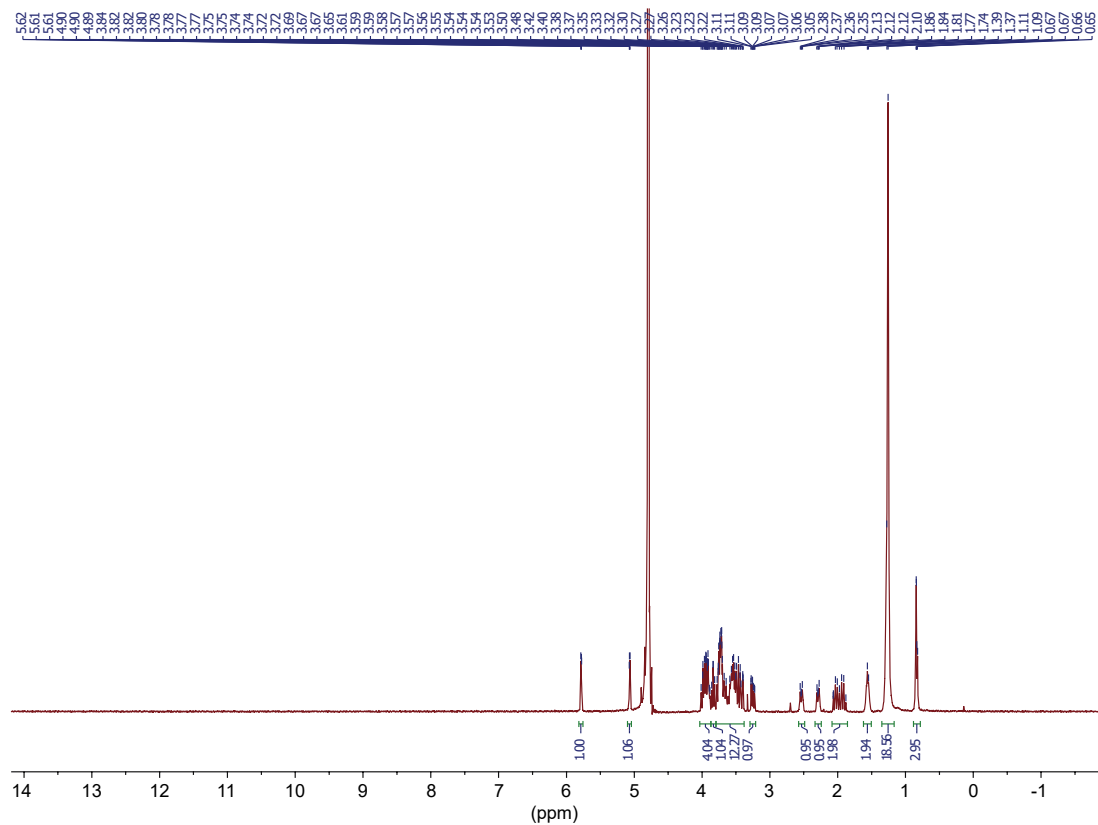


Fig. S34: ^1H NMR spectrum for compound **16** in D_2O (400 MHz).

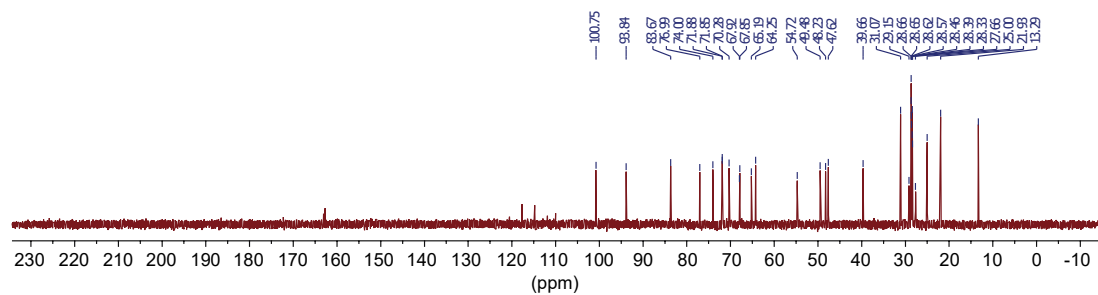


Fig. S35: ^{13}C NMR spectrum for compound **16** in D_2O (100 MHz).

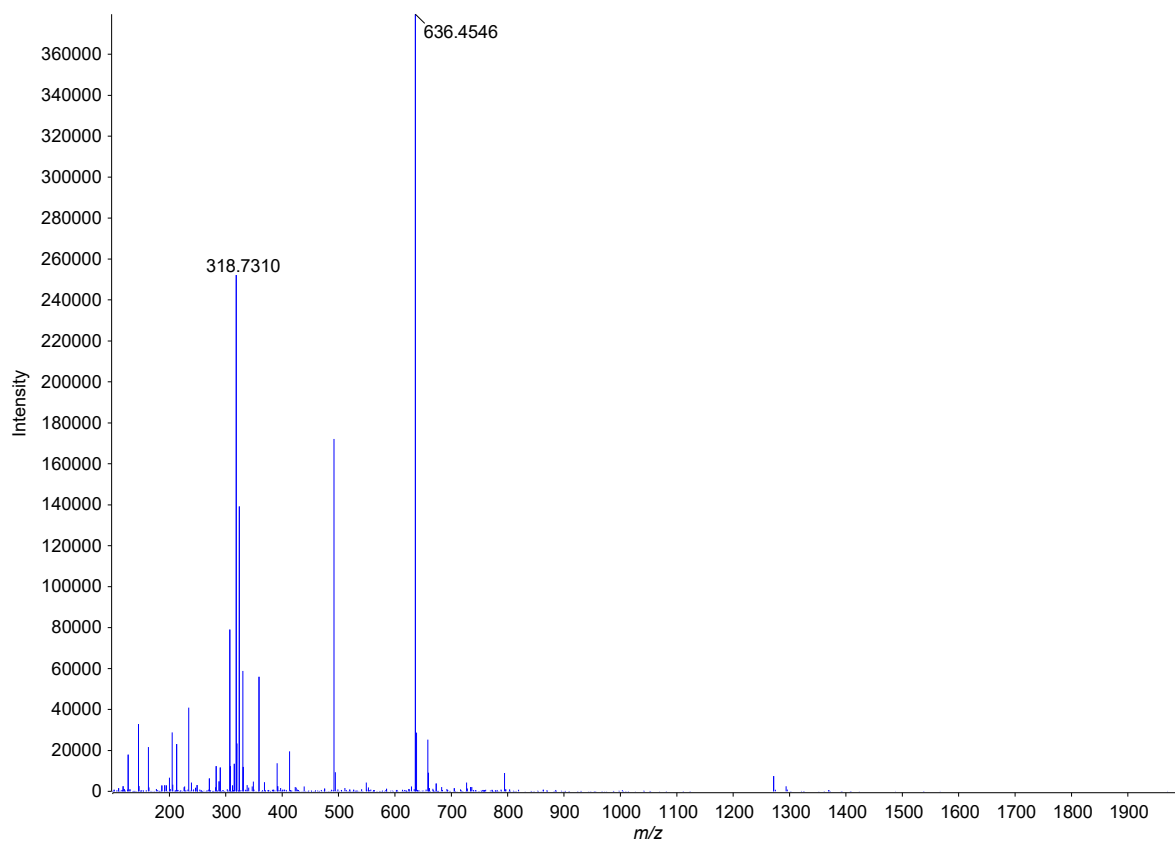


Fig. S36: Mass spectrum for compound **16**.