

SUPPORTING INFORMATION TO

Synthesis and properties of amphiphilic glycol-chitosans, modified with daunorubicin and aminoxyls

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1. NMR spectra

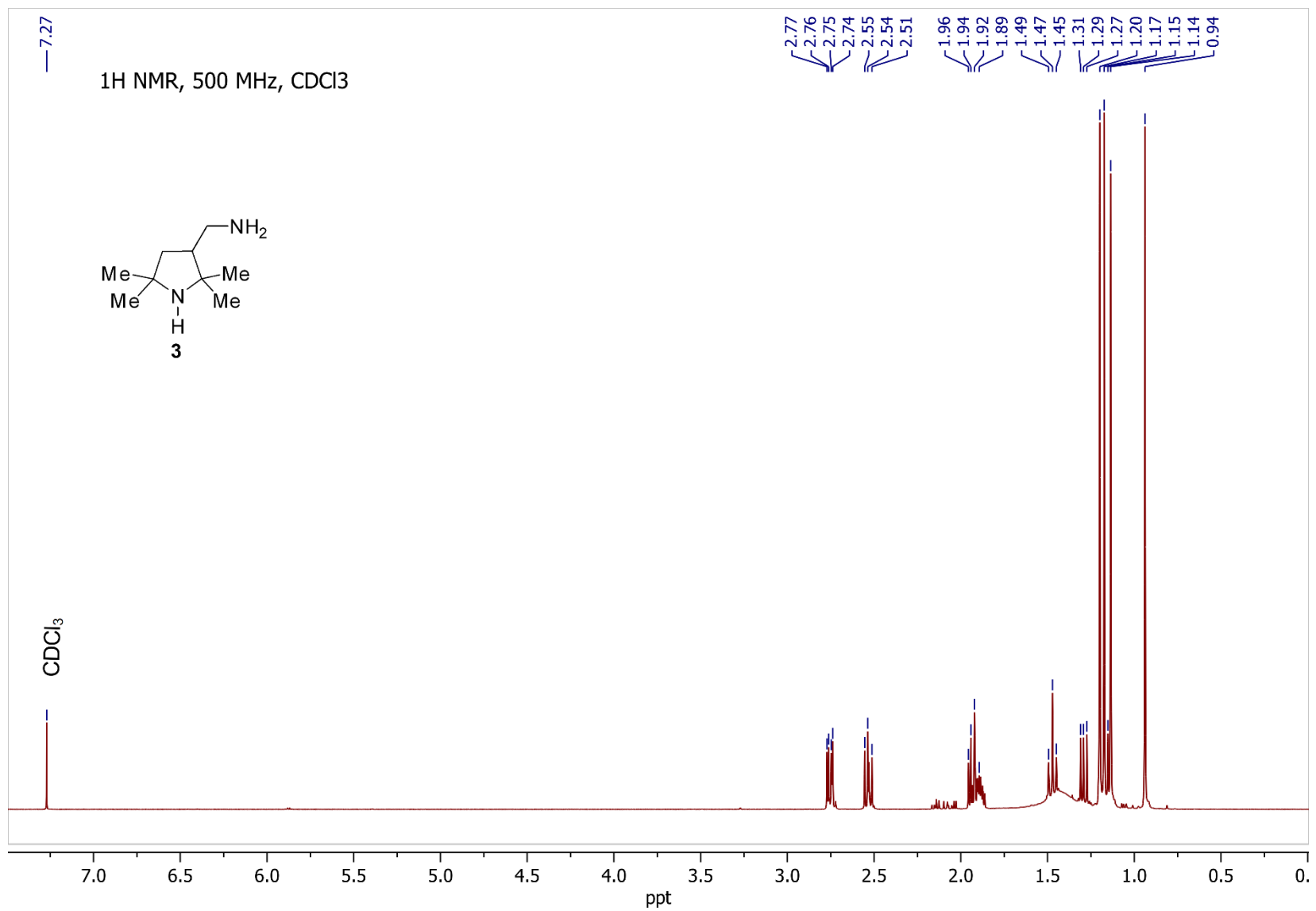


Figure S1.1. 1H NMR spectrum of compound **3** in CDCl₃.

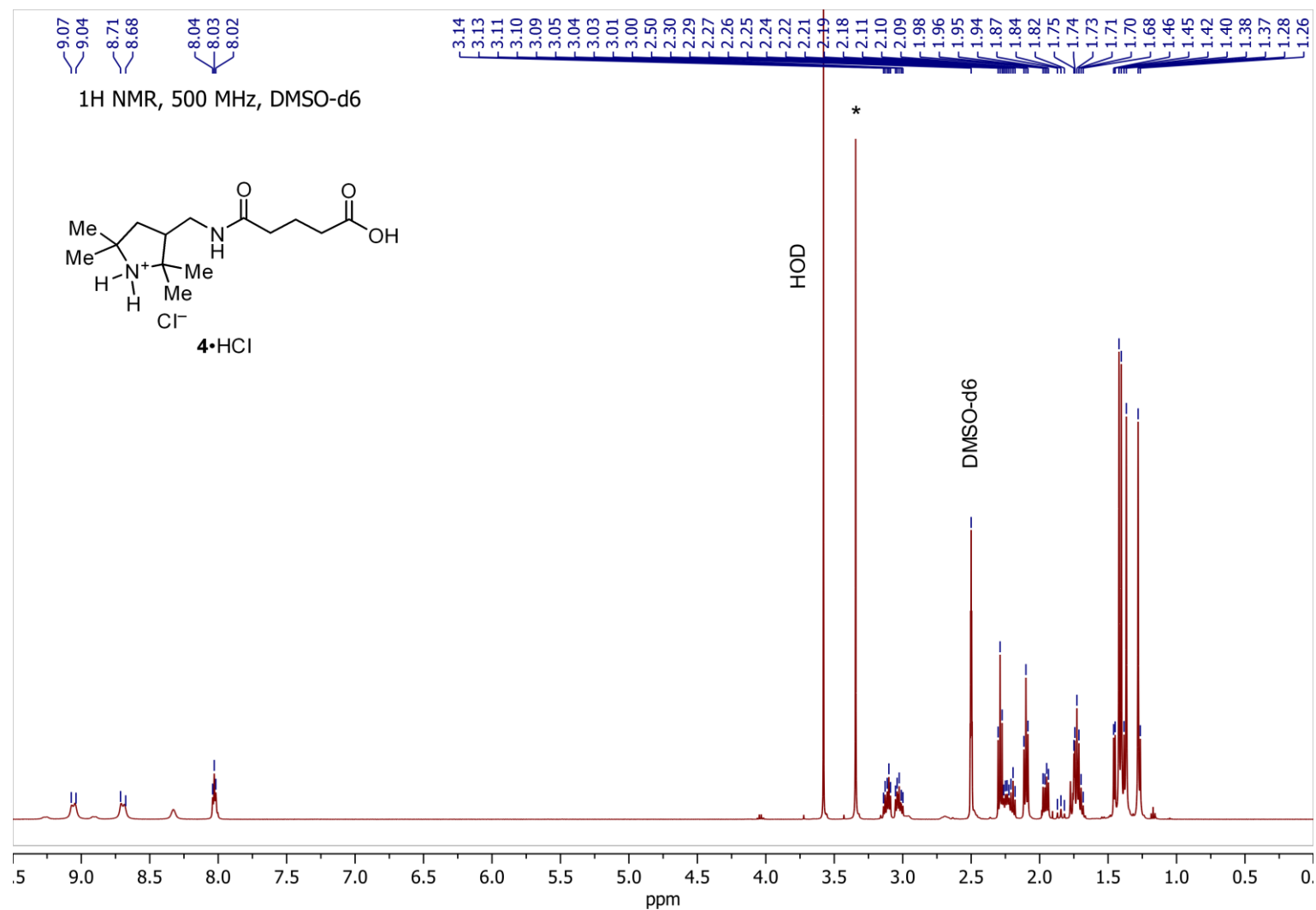


Figure S1.2. ¹H NMR spectrum of compound **4•HCl** in DMSO-d₆. * - The signal at 3.34 ppm is presumably due to MeOH (not removed by drying under vacuum at 10⁻² Torr).

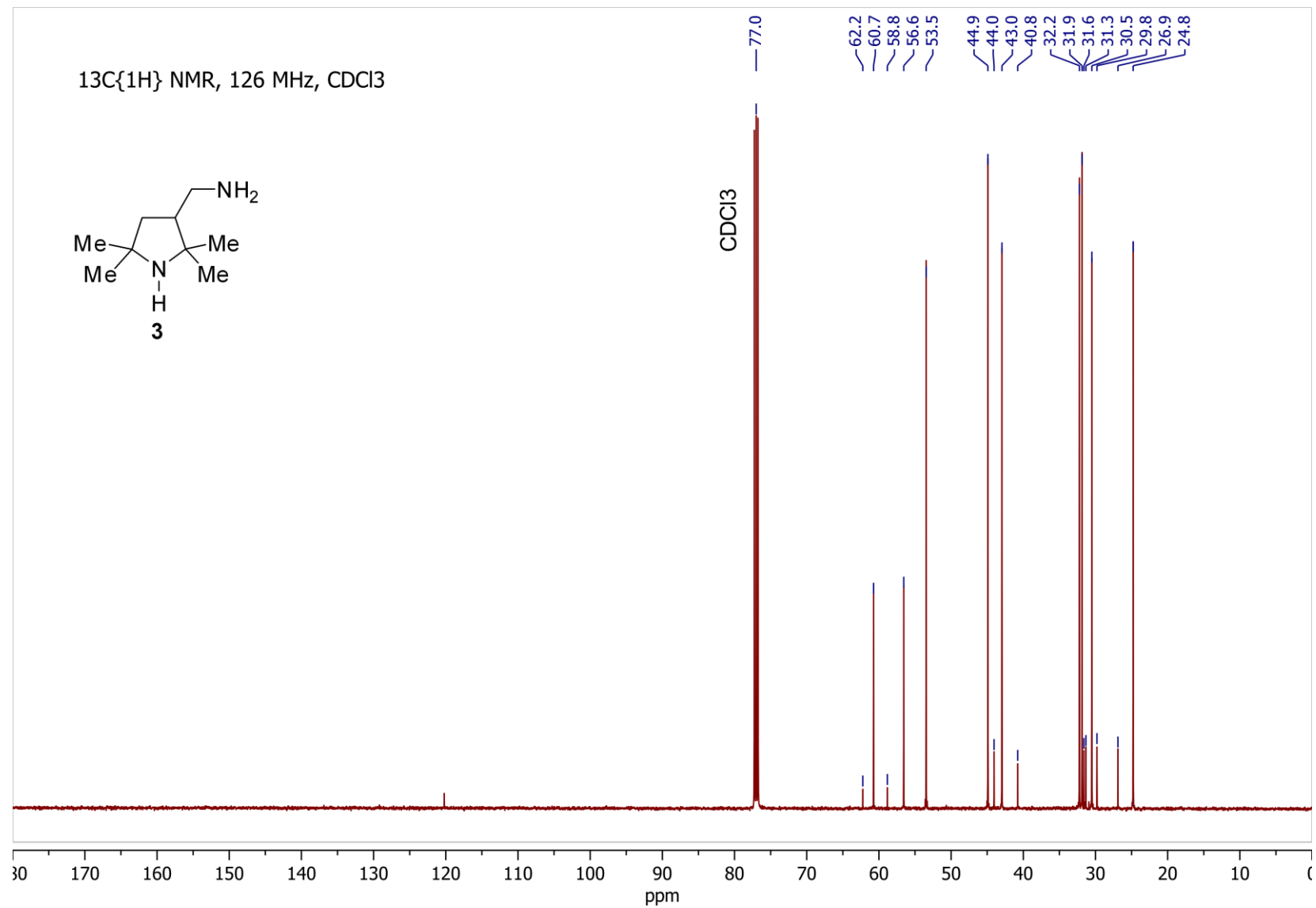


Figure S1.3. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **3** in CDCl_3 .

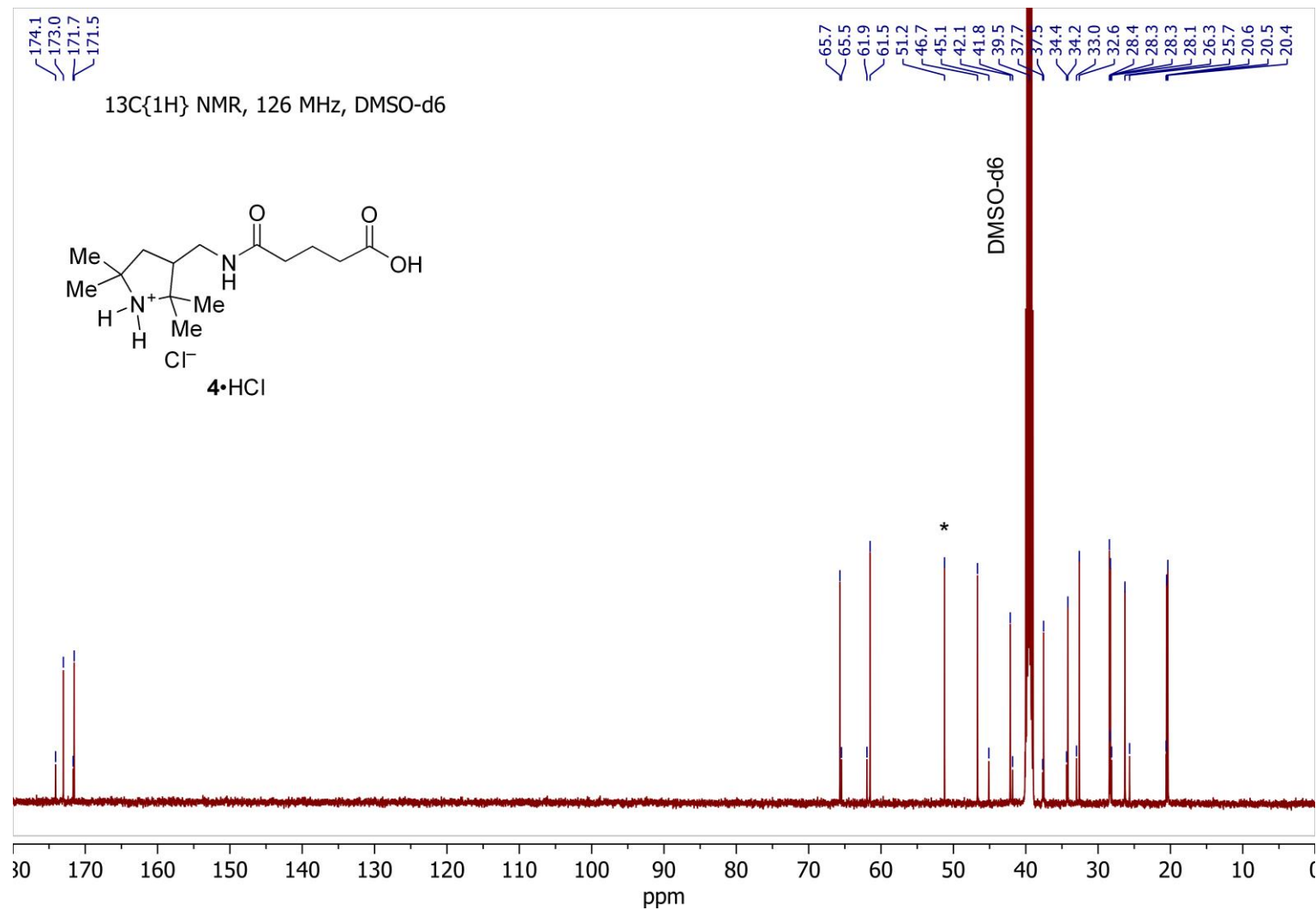


Figure S1.4. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **4•HCl** in DMSO-d6. * - The signal at 51.2 ppm is presumably due to MeOH (not removed by drying under vacuum at 10^{-2} Torr).

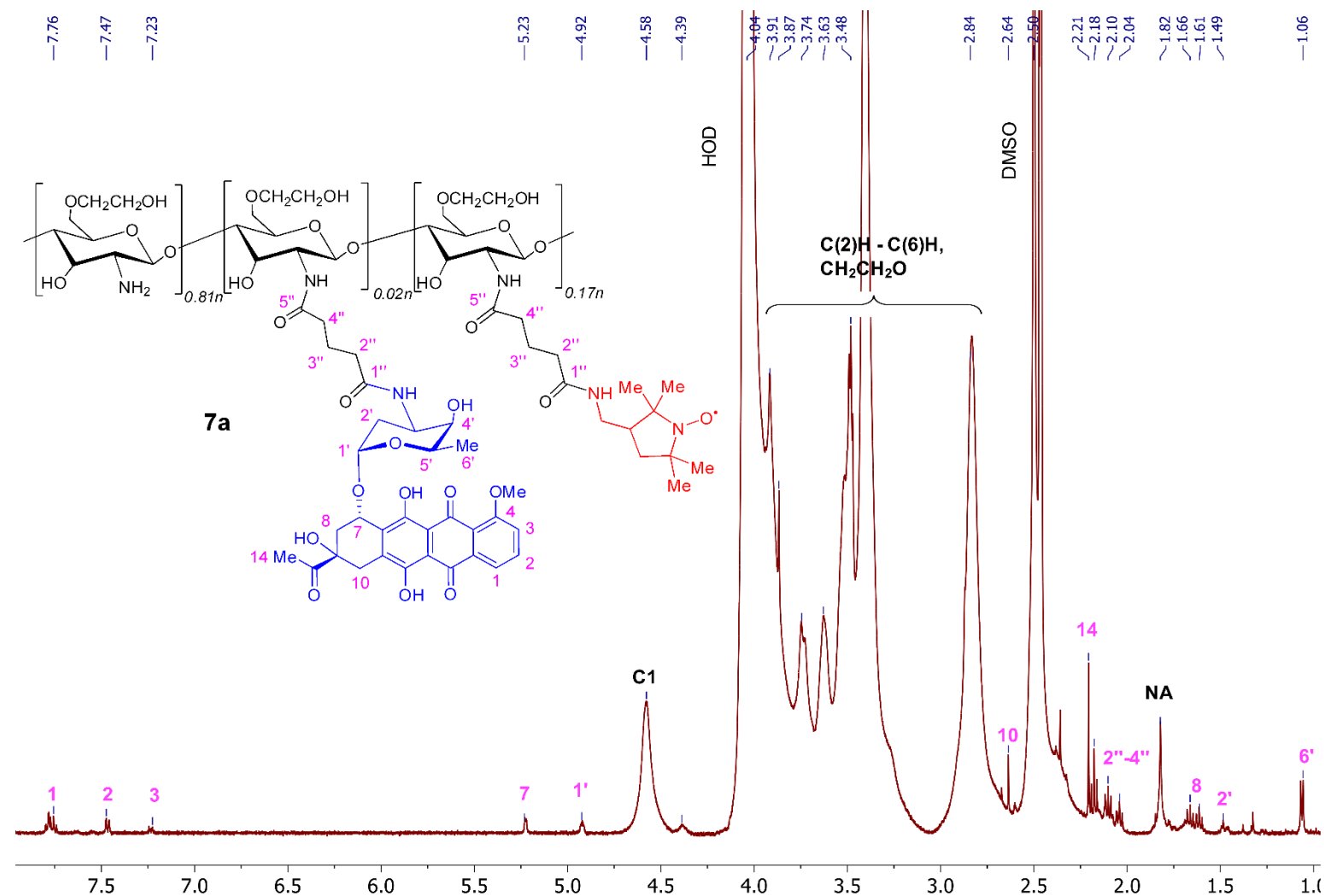


Figure S1.5. ¹H NMR spectrum of modified glycol-chitosan **7a** in D₂O-DMSO-d₆ (1:1) at 60 °C. Numbered signals correspond to the protons of Dau (outside the range of 2.7–4.2 ppm of GC and HOD signals) and glutaryl linkers binding Dau and aminoxy to GC. C1 and NA are the signals of protons at the C(1)-atom of aminoglycosides and methyls in the NHAc groups of glycol-chitosan. C(2)H – C(6)H and CH₂CH₂O are the signals of protons at the carbon atoms of GC glycosides and hydroxyethyl groups.

2. IR – spectra

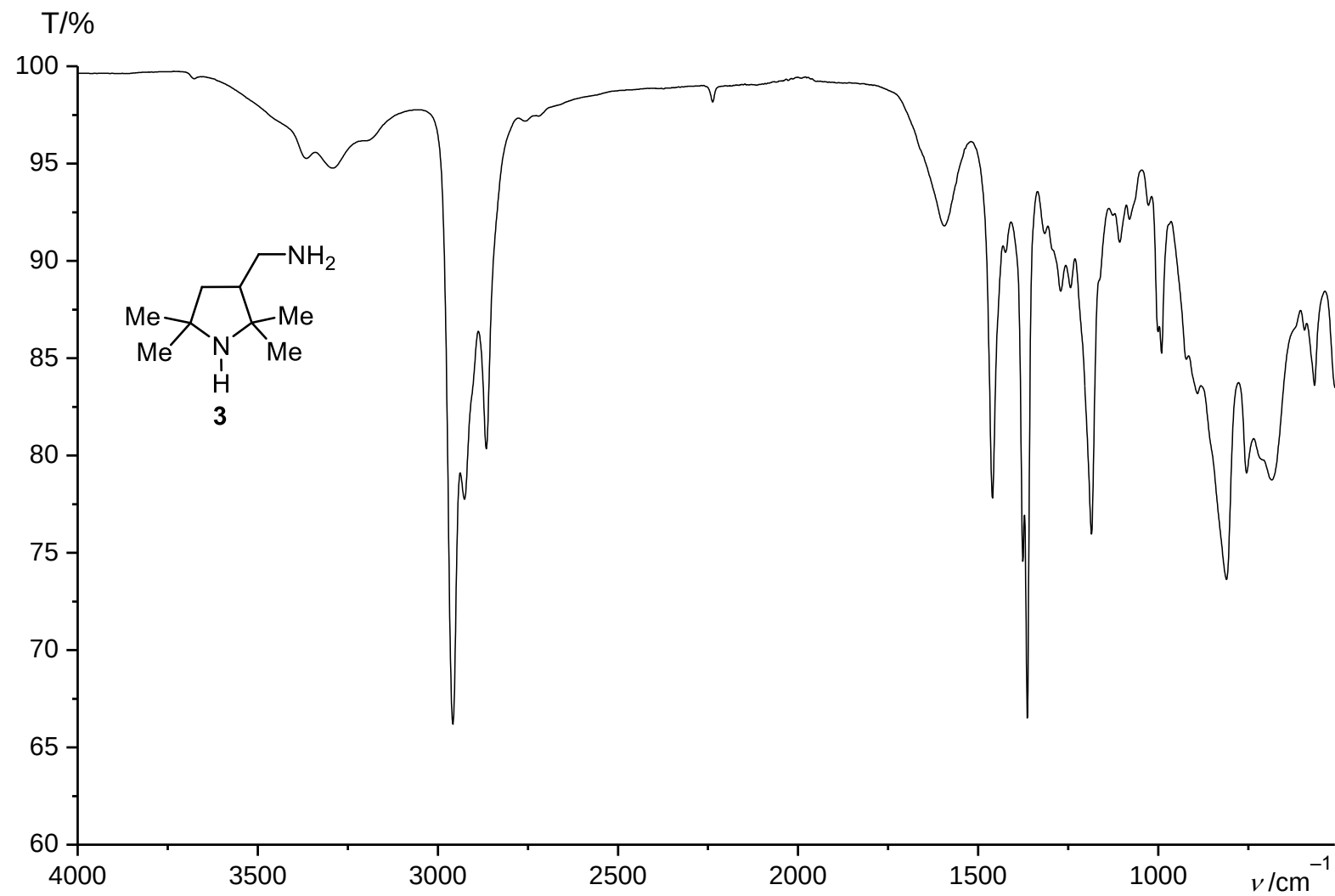


Figure S2.1. IR spectrum of compound **3**.

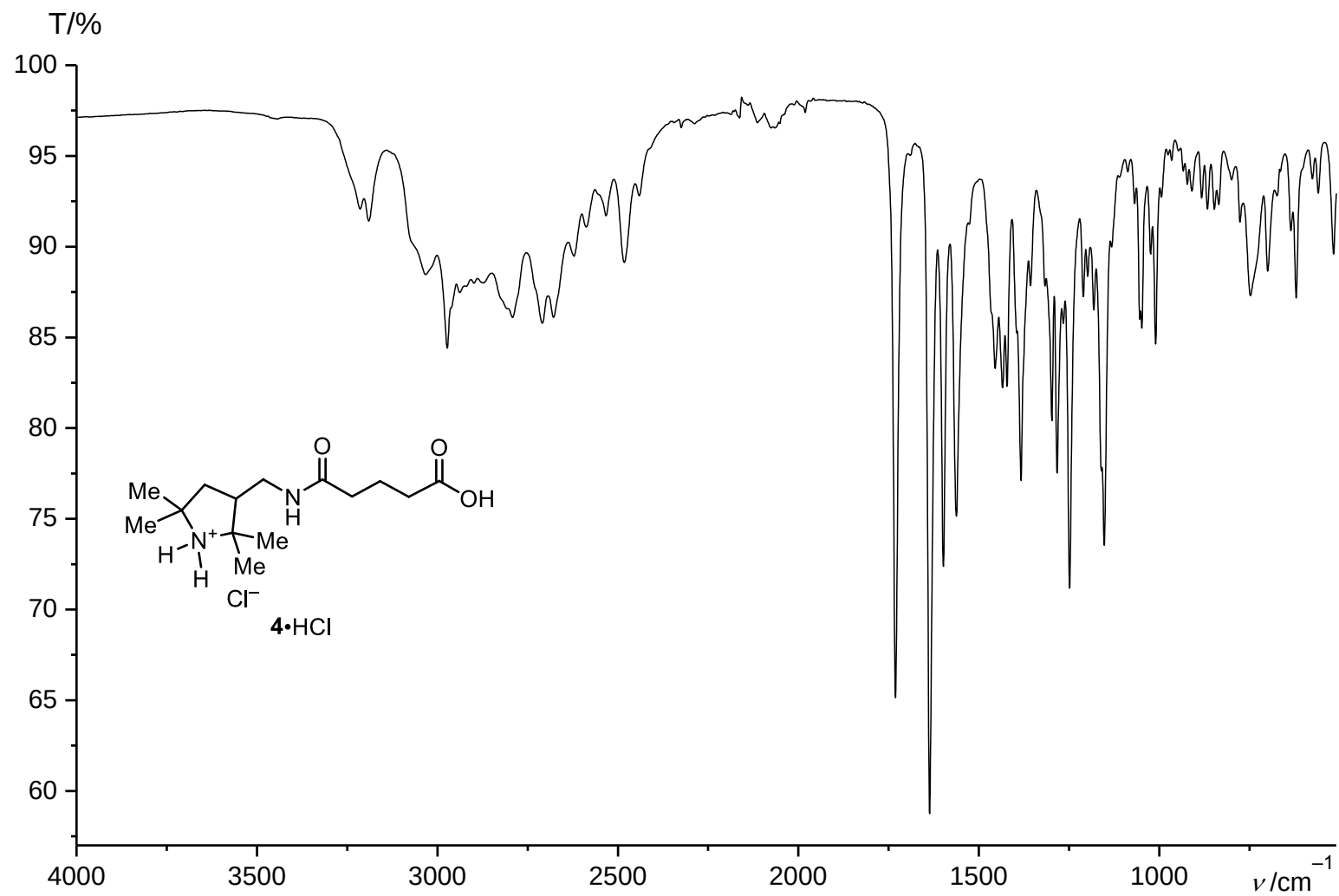


Figure S2.2. IR spectrum of compound **4•HCl**.

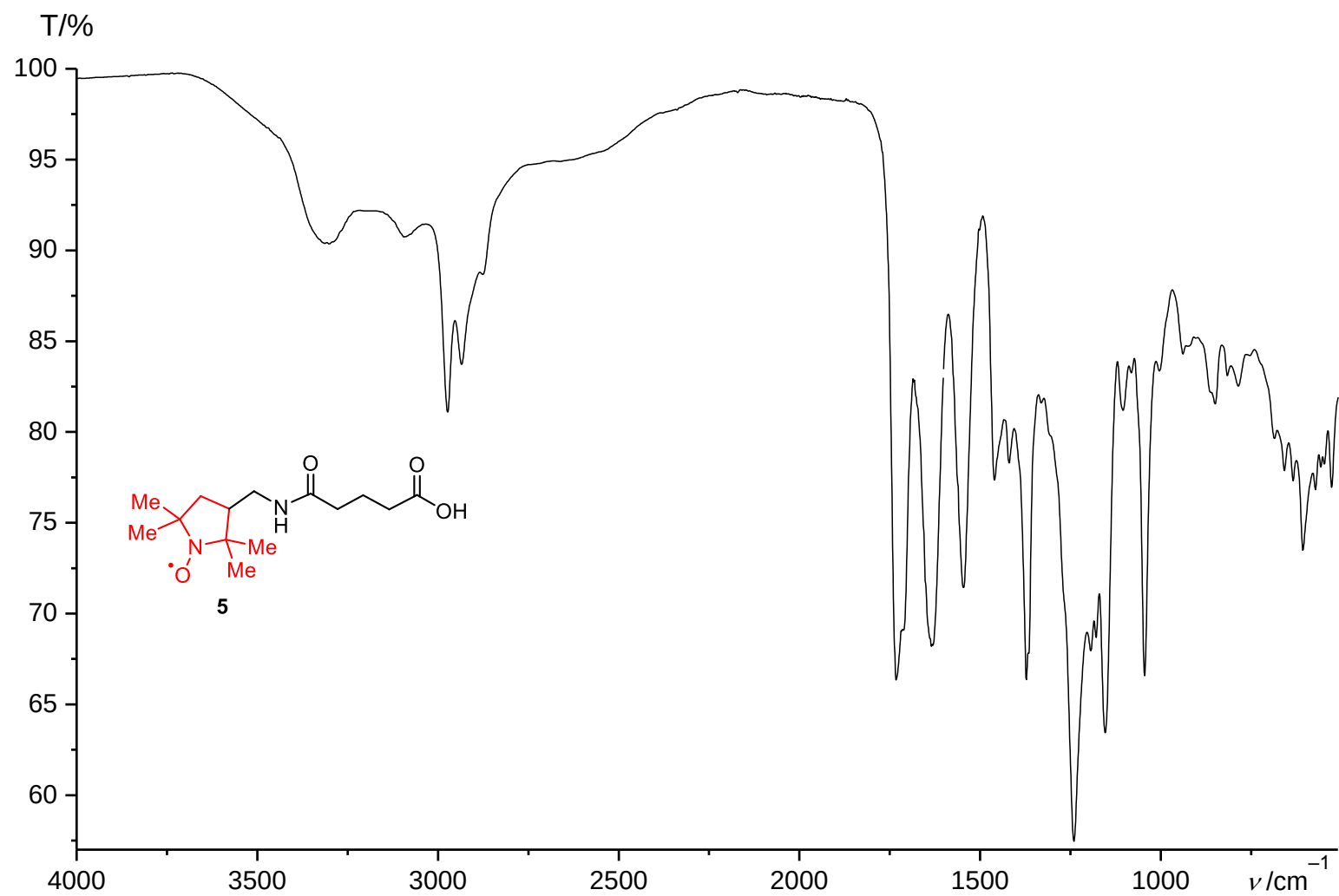


Figure S2.3. IR spectrum of compound 5.

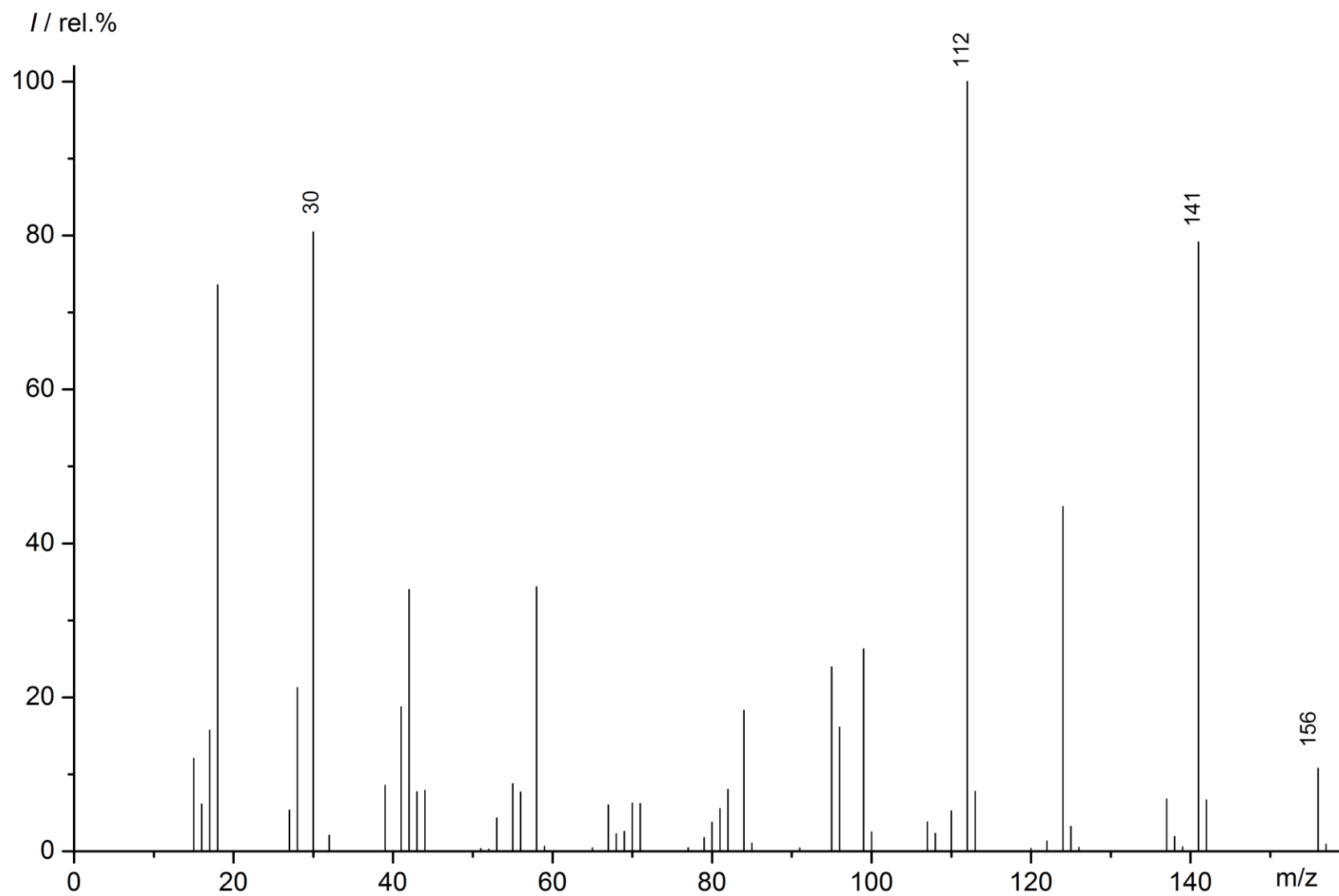


Figure S3.1. Mass spectrum of compound 3.

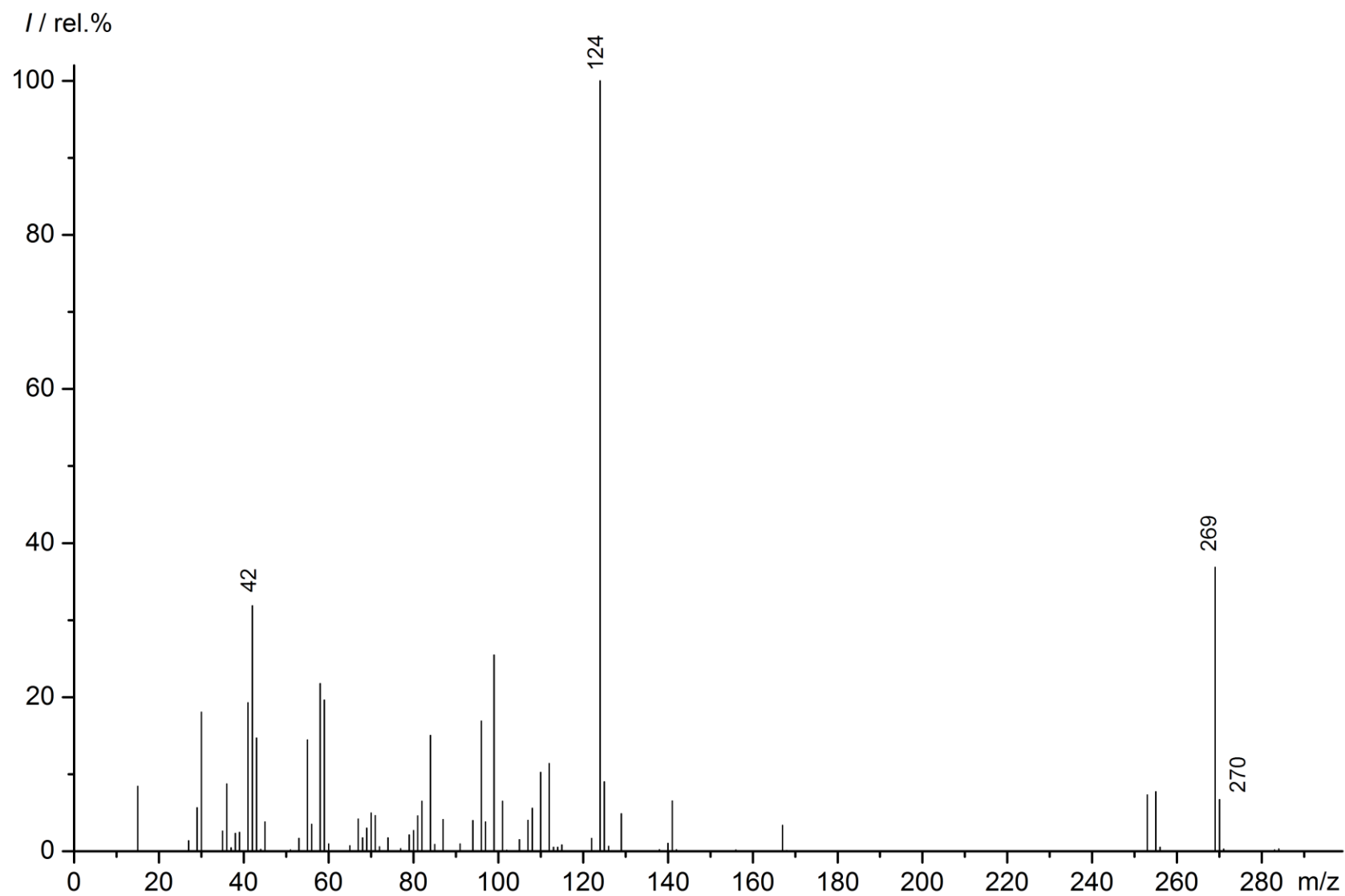


Figure S3.2. Mass spectrum of compound **4**•HCl.

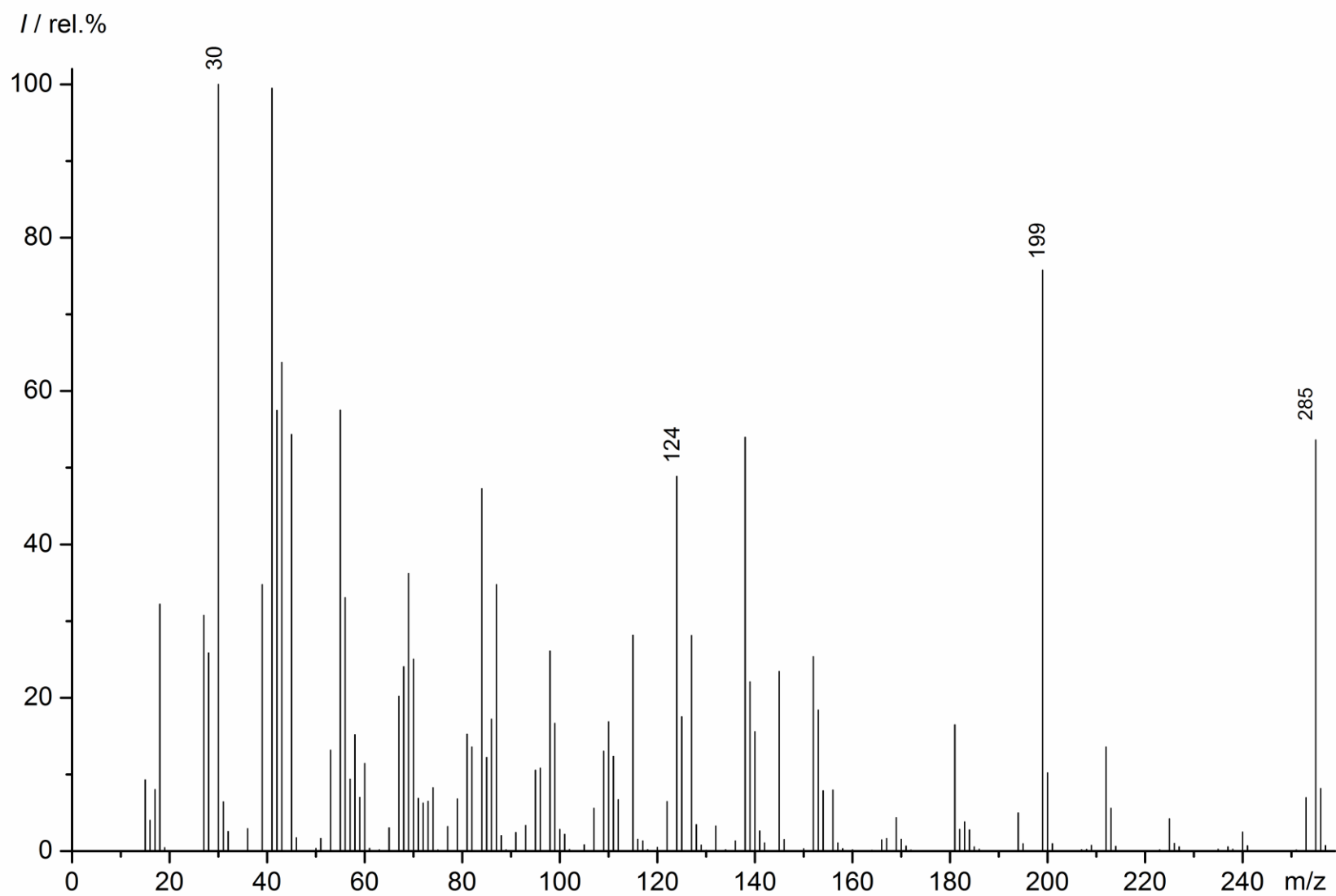


Figure S3.3. Mass spectrum of compound 5.