

SUPPORTING INFORMATION

Toward the Identification of Novel Antimicrobial Agents: One-pot Synthesis of Lipophilic Conjugates of N-Alkyl D- and L-Iminosugars

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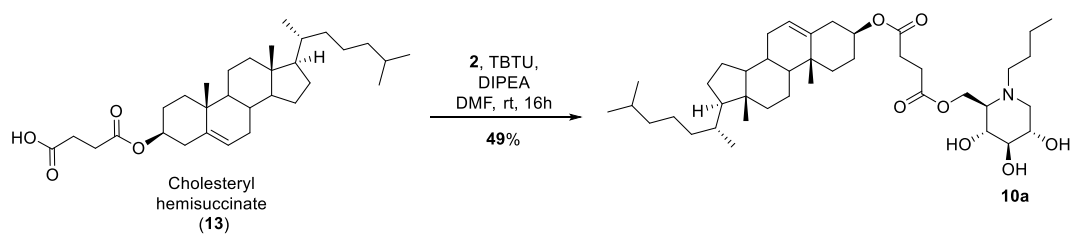
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CHEMICAL SYNTHESIS



SCHEME S1. Synthesis of conjugate **10a** by established procedure

Compound 10a. Cholesteryl hemisuccinate (**13**; 0.14 g, 0.28 mmol), TBTU (9.0 mg, 0.28 mmol) and DIPEA (59 μ L, 0.34 mmol) were dissolved in anhydrous DMF (1.5 mL) under nitrogen atmosphere and the resulting mixture was stirred at rt for 30 minutes. NBDNJ (50 mg, 0.23 mmol) was then added and the mixture was stirred at the same temperature for 16 h. The reaction mixture was diluted with DCM, washed with 5% HCl (2x1mL) and then with NaHCO₃ and water. Organic layers were dried (Na₂SO₄) and evaporated under reduced pressure. Column chromatography of the crude residue over silica gel (DCM/MeOH = 96:4) afforded the conjugate **10a** (78 mg, 49% yield). ¹H and ¹³C NMR spectra are reported below.

COPIES OF ^1H , ^{13}C AND ^1H - ^1H COSY NMR SPECTRA

FIGURE S1. ^1H NMR spectrum of compound 13.

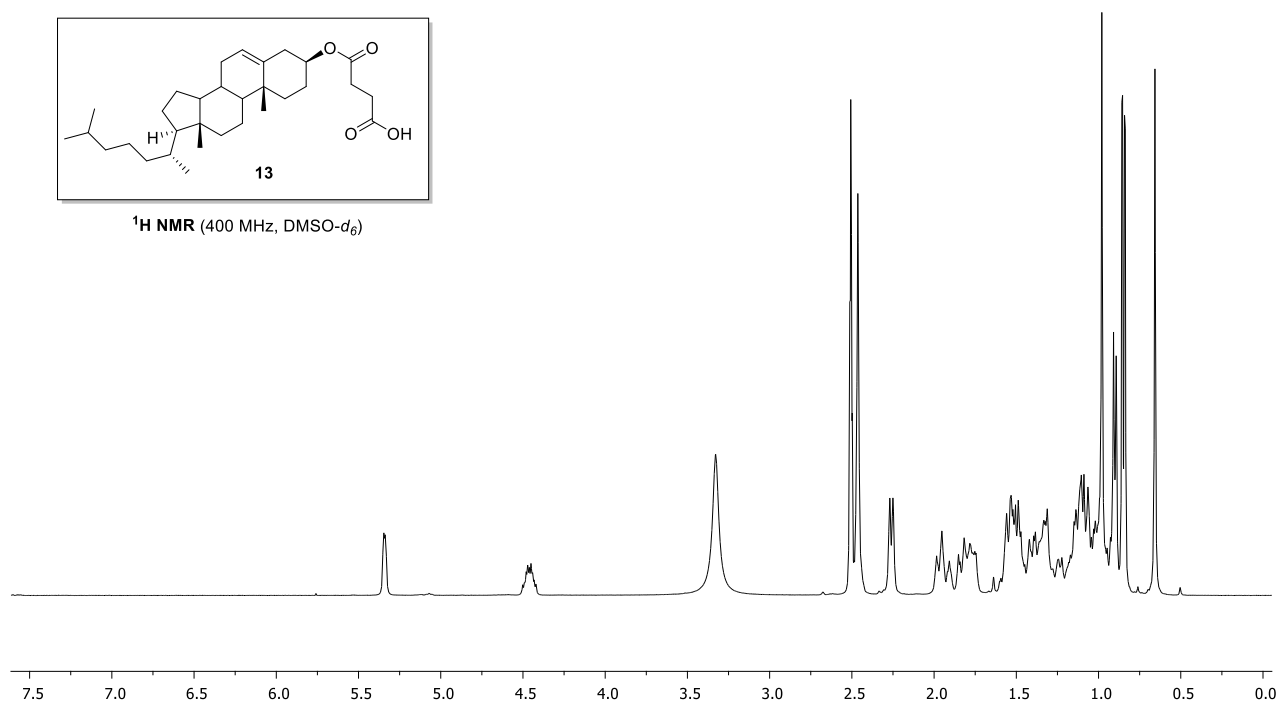


FIGURE S2. ^1H NMR spectrum of compound 2.

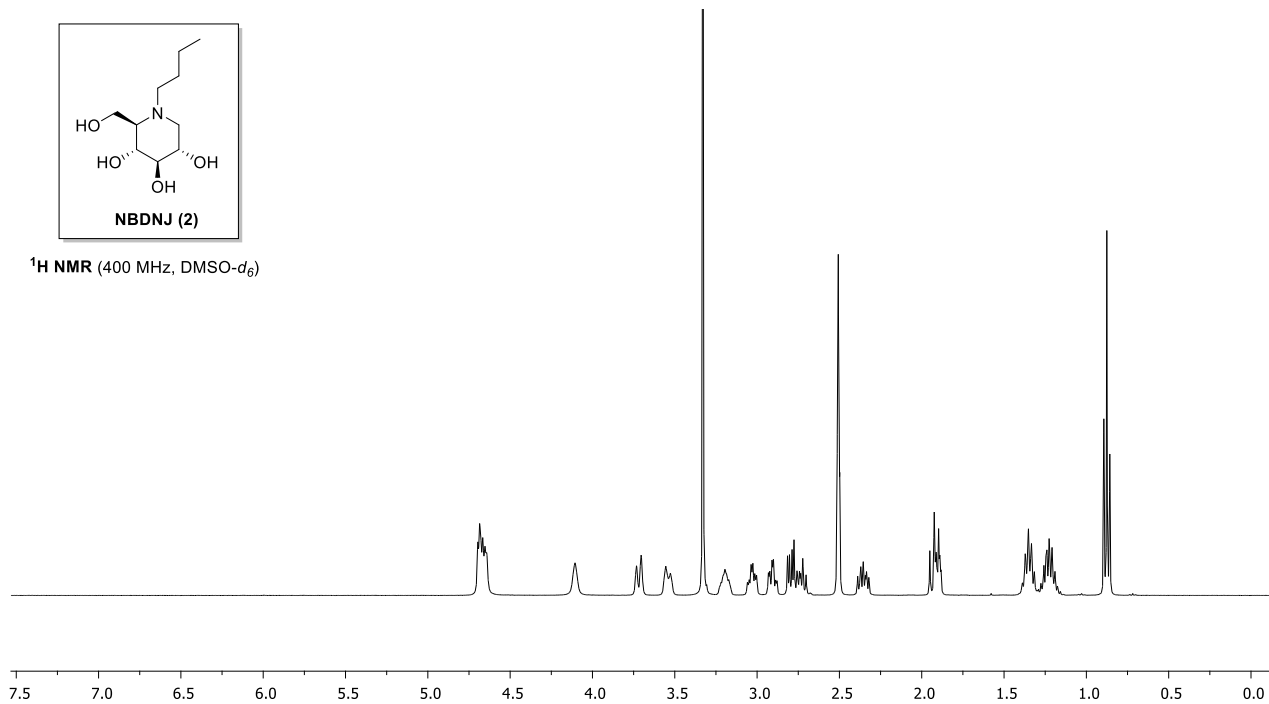


FIGURE S3. ^1H and ^{13}C NMR spectra of compound **10a**.

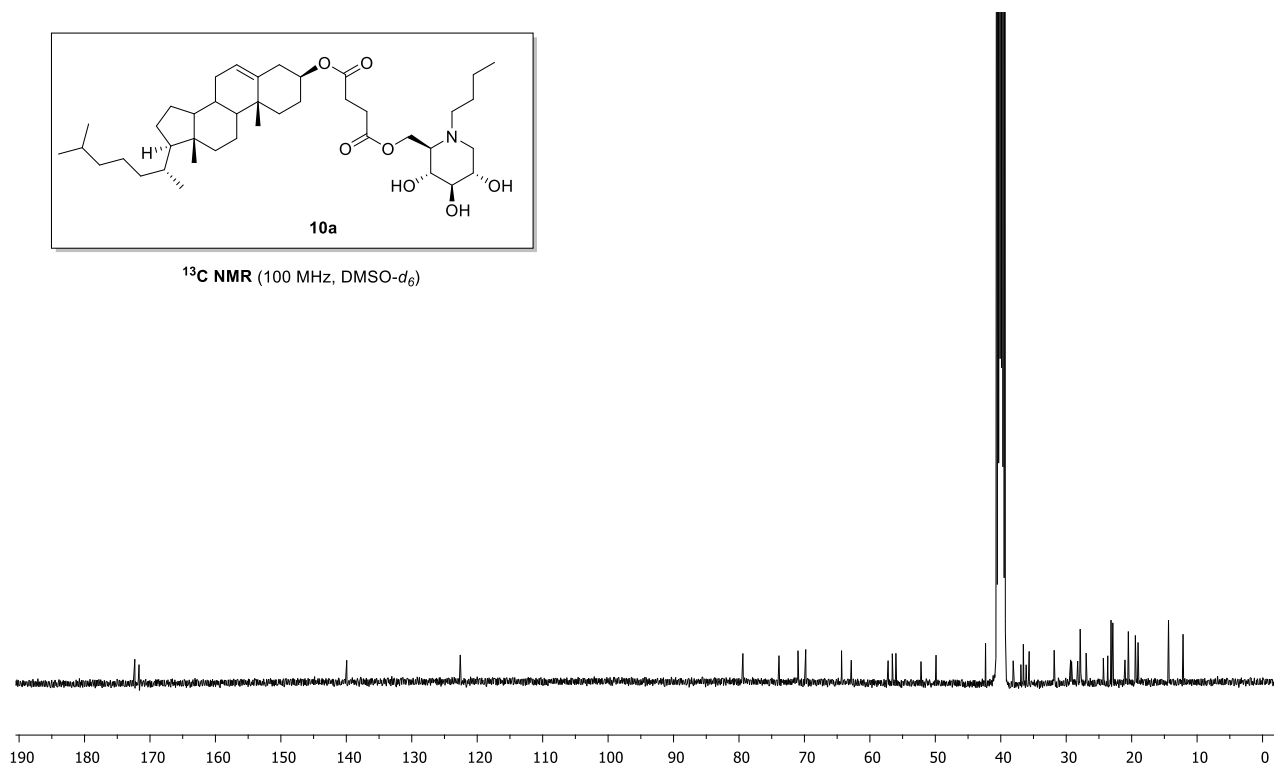
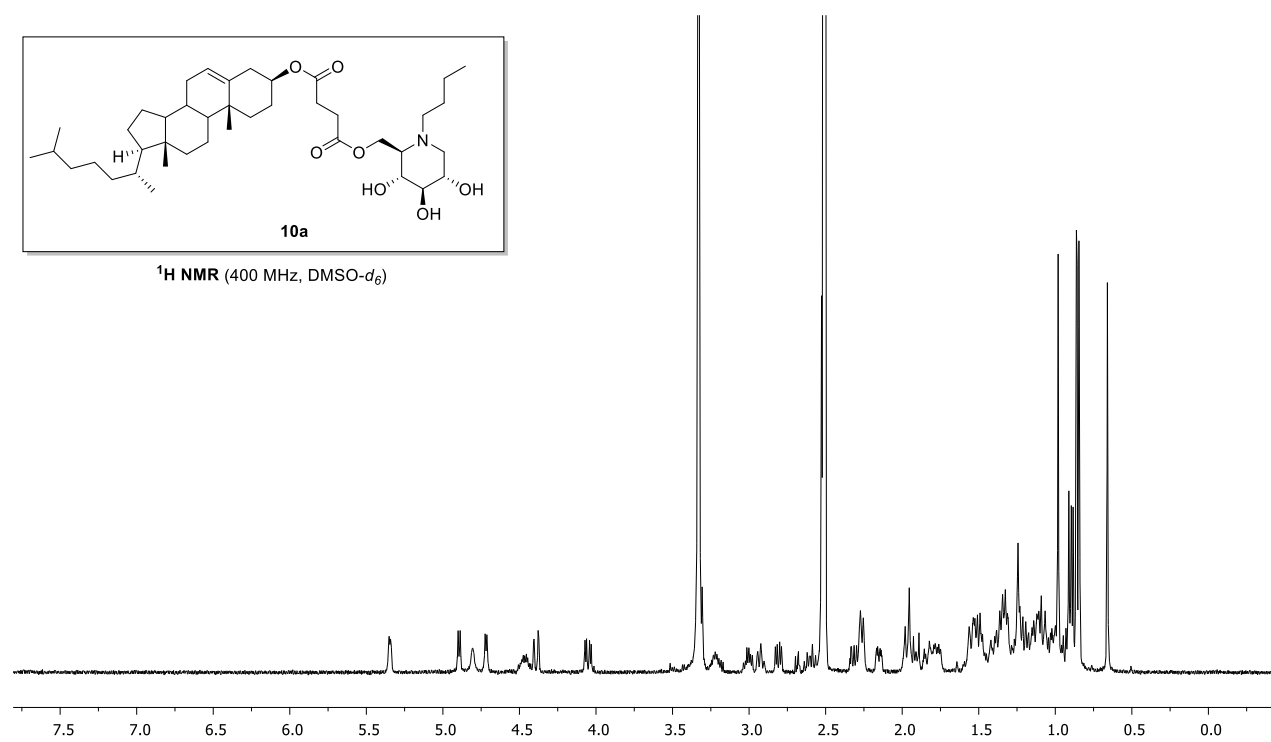


FIGURE S4. ^1H and ^1H - ^1H COSY NMR spectra of compound **10b**.

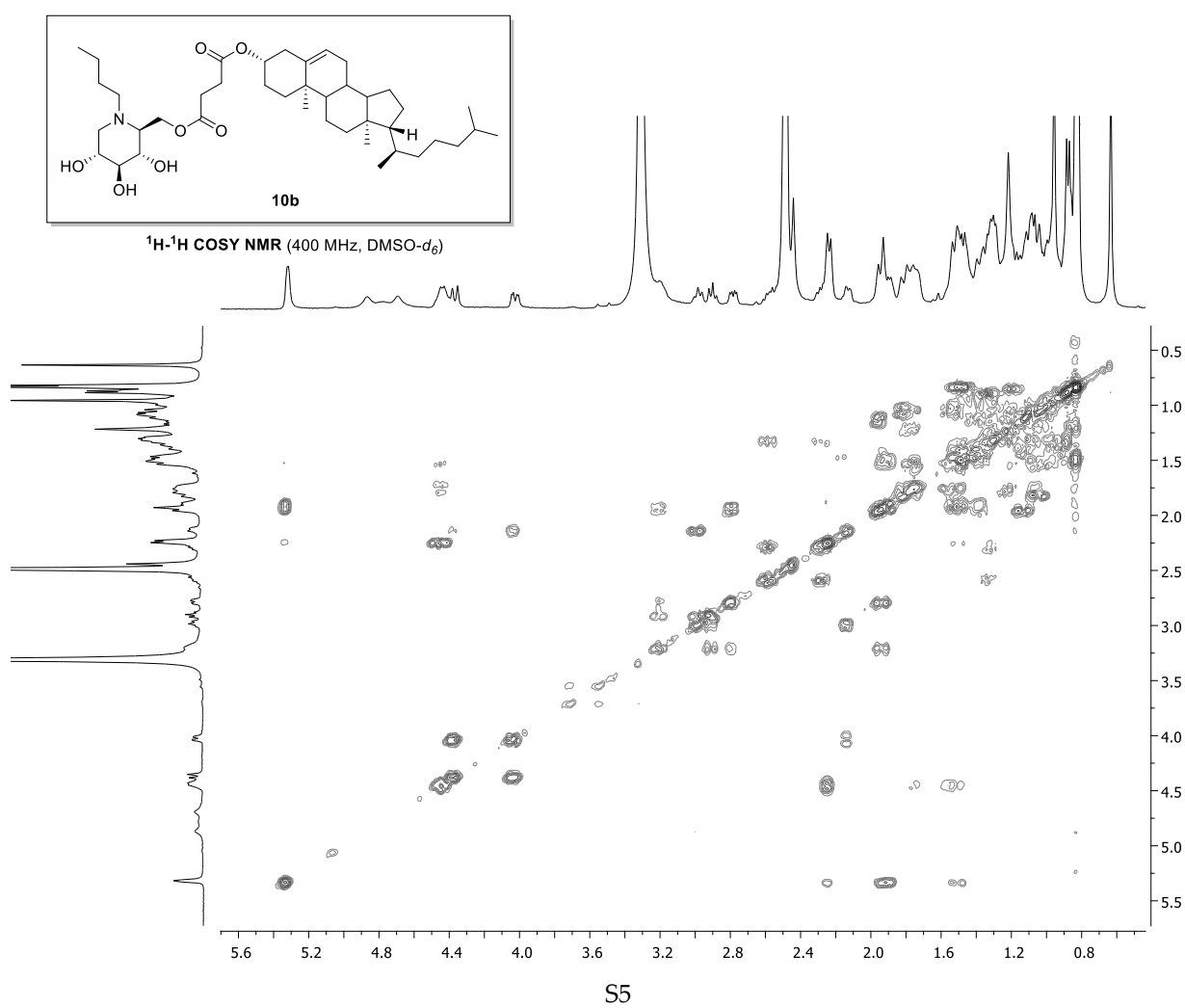
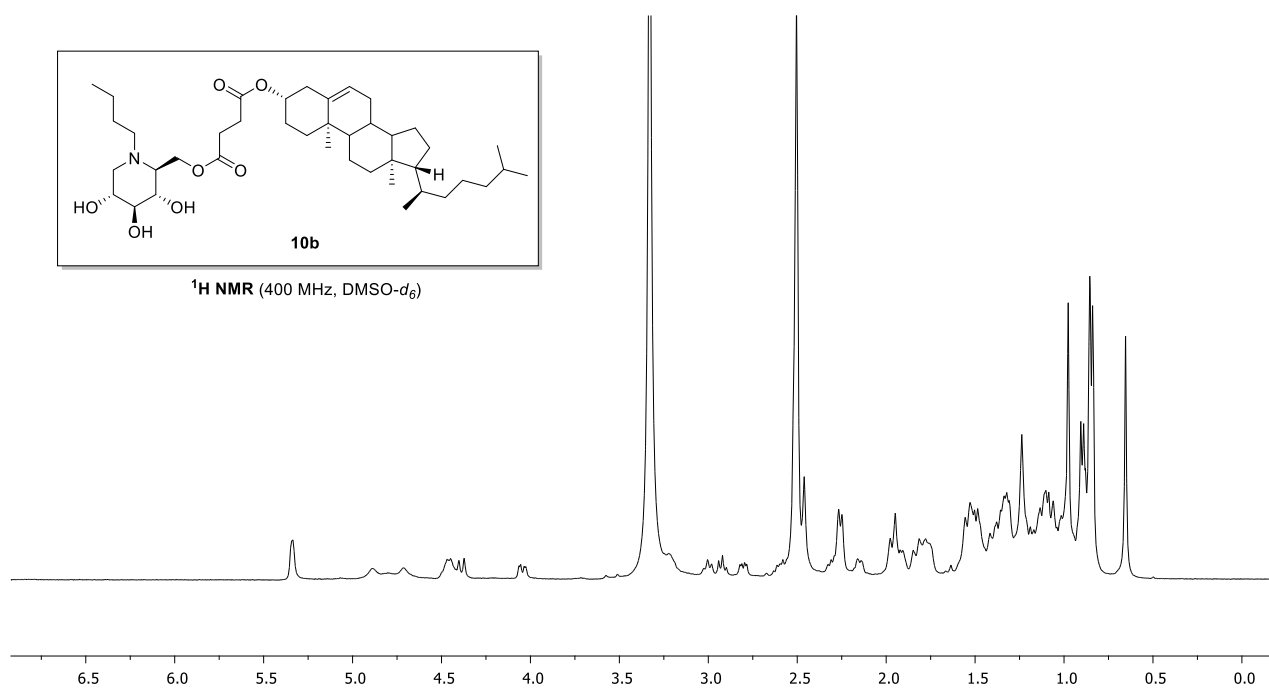


FIGURE S5. ^1H and ^{13}C NMR spectra of compound **11a**.

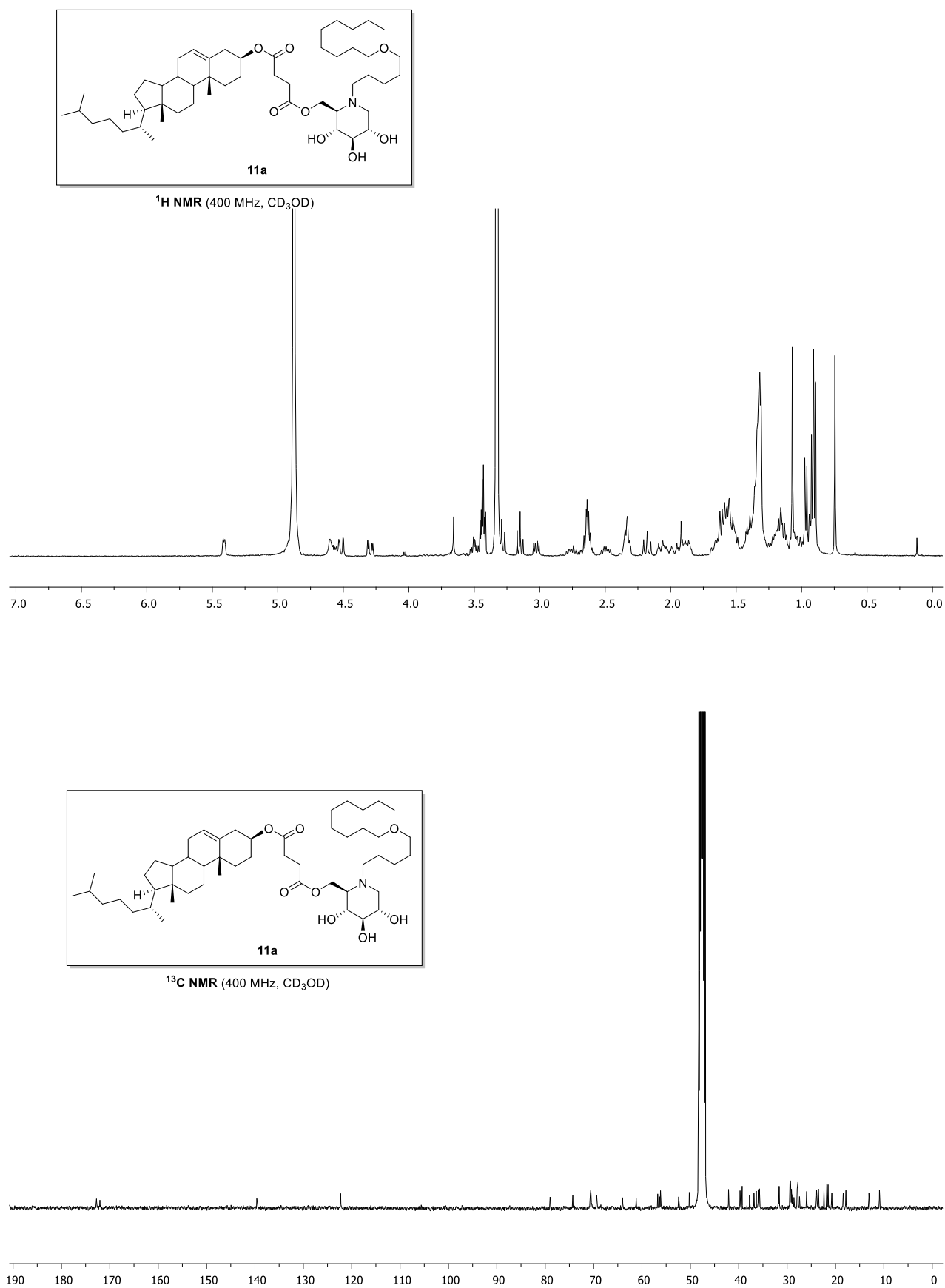


FIGURE S6. ^1H and ^1H - ^1H COSY NMR spectra of compound **11b**

