

Supplementary Materials: The Very First Modification of Pleuromutilin and Lefamulin by Photoinitiated Radical Addition Reactions—Synthesis and Antibacterial Studies

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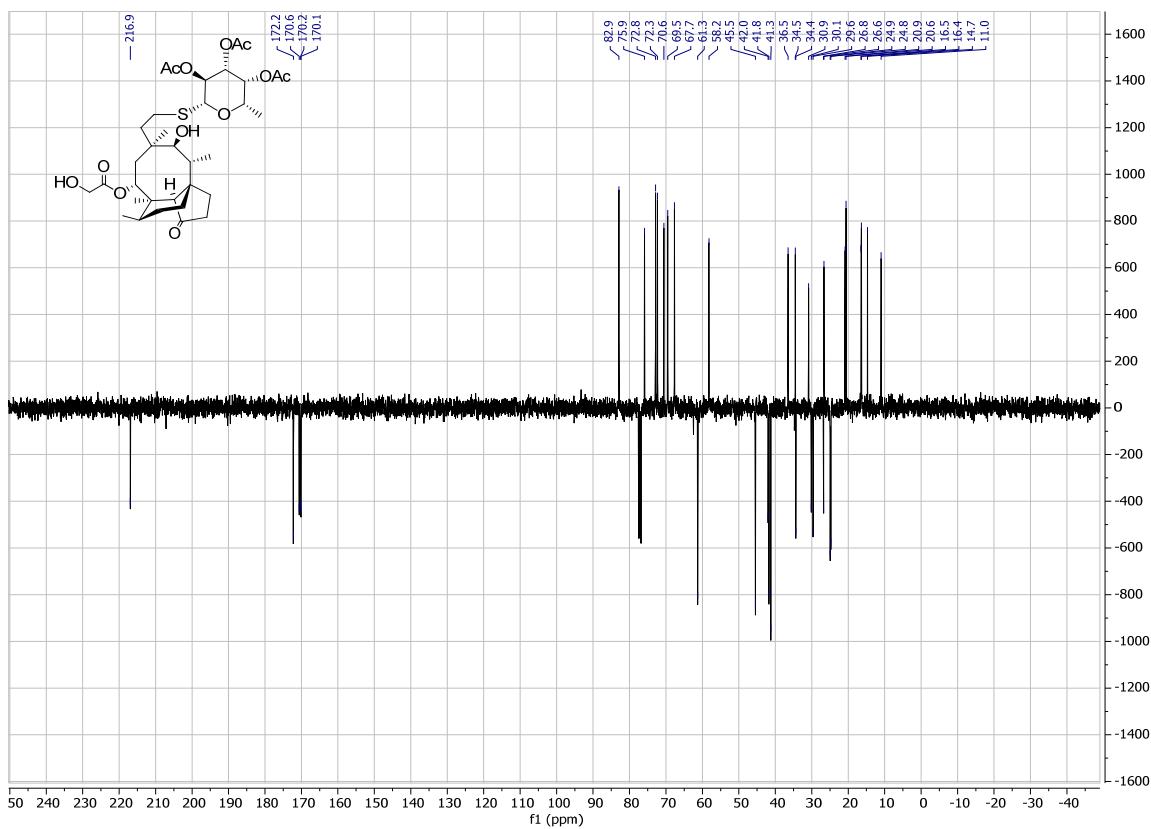
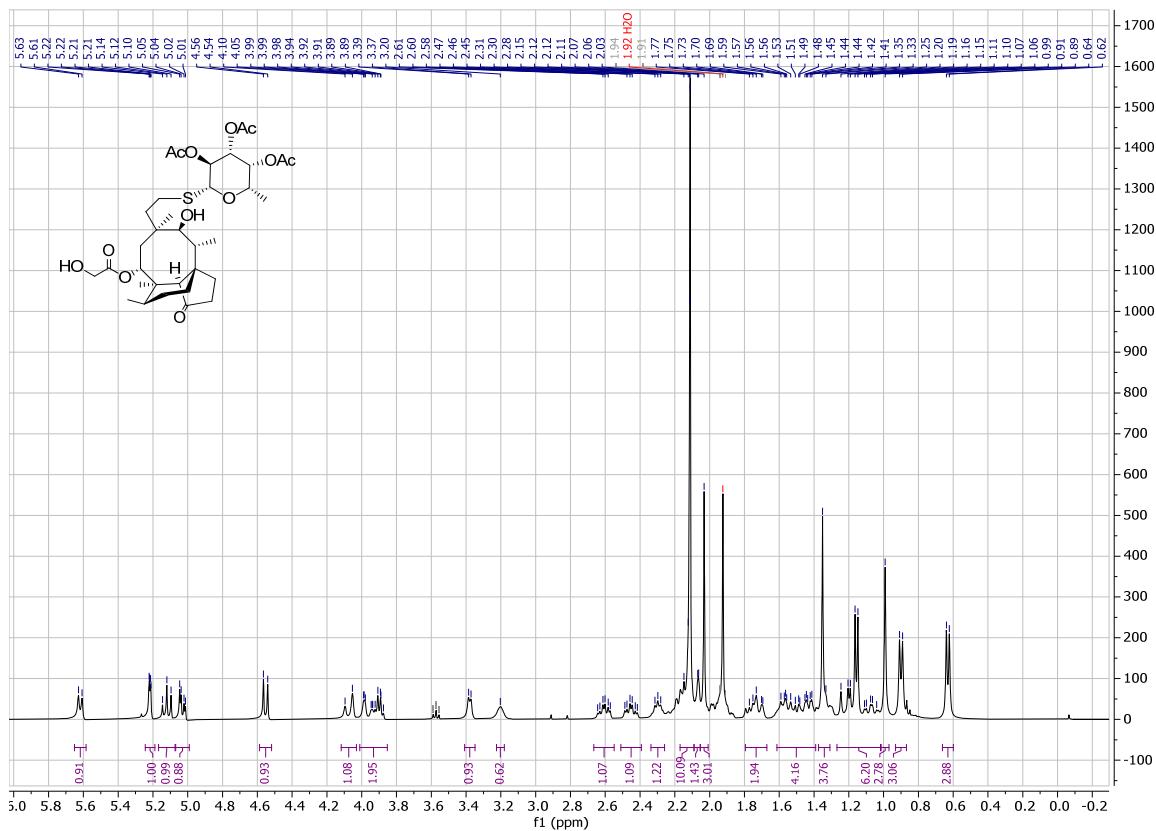


Figure S1. ¹H and ¹³C NMR spectrum (400 MHz, CDCl₃) of compound 10a.

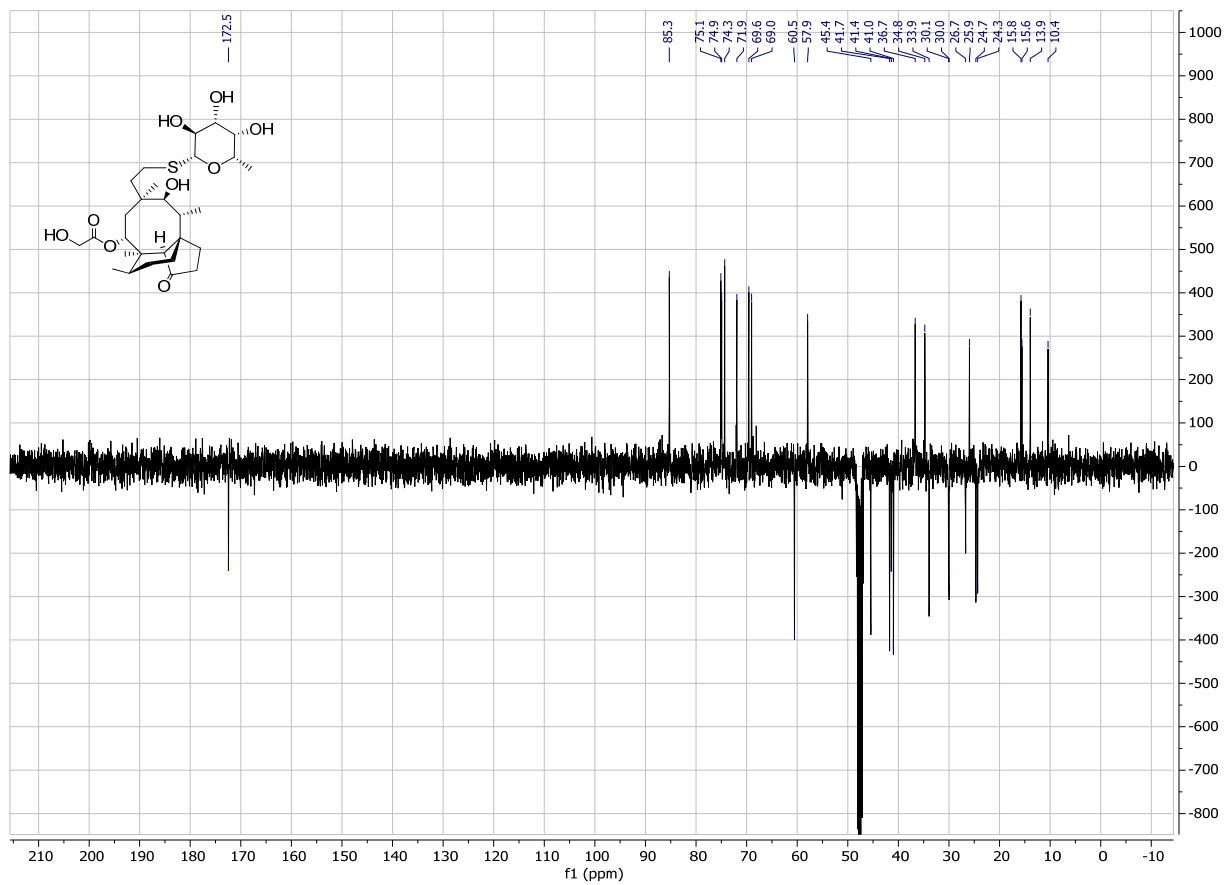
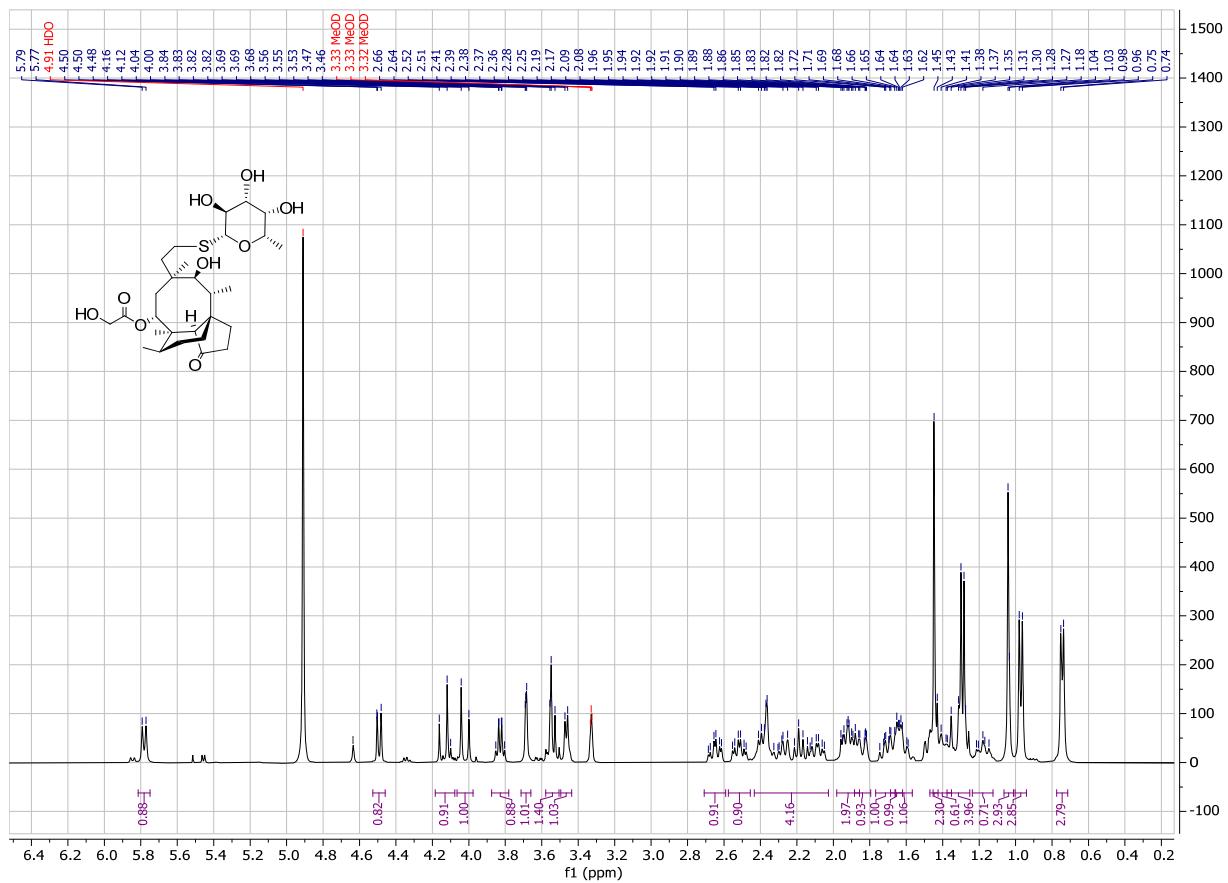


Figure S2. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound **10b**.

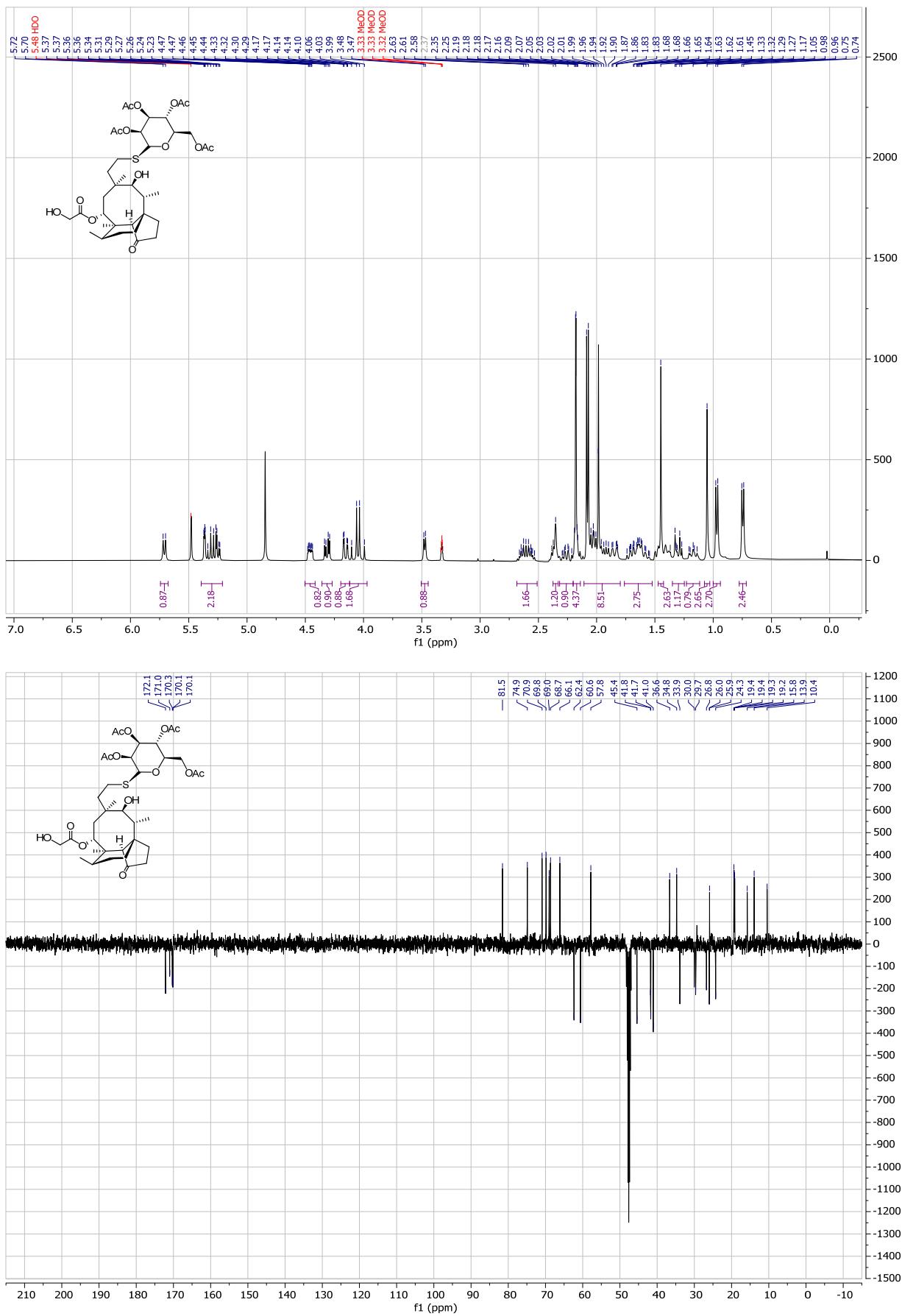


Figure S3. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound **10c**.

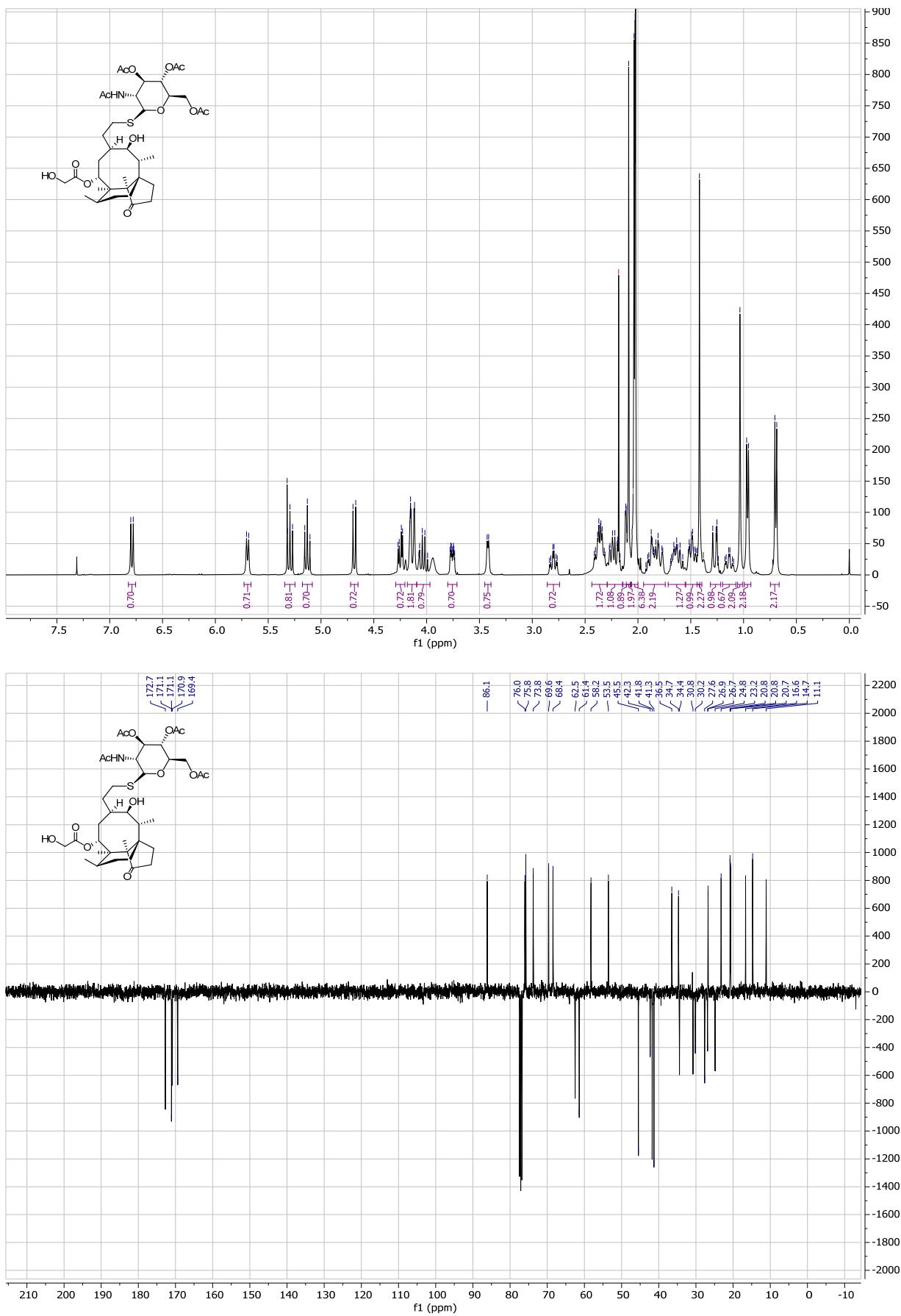


Figure S4. ^1H and ^{13}C NMR spectrum (400 MHz, CDCl_3) of compound **10d**.

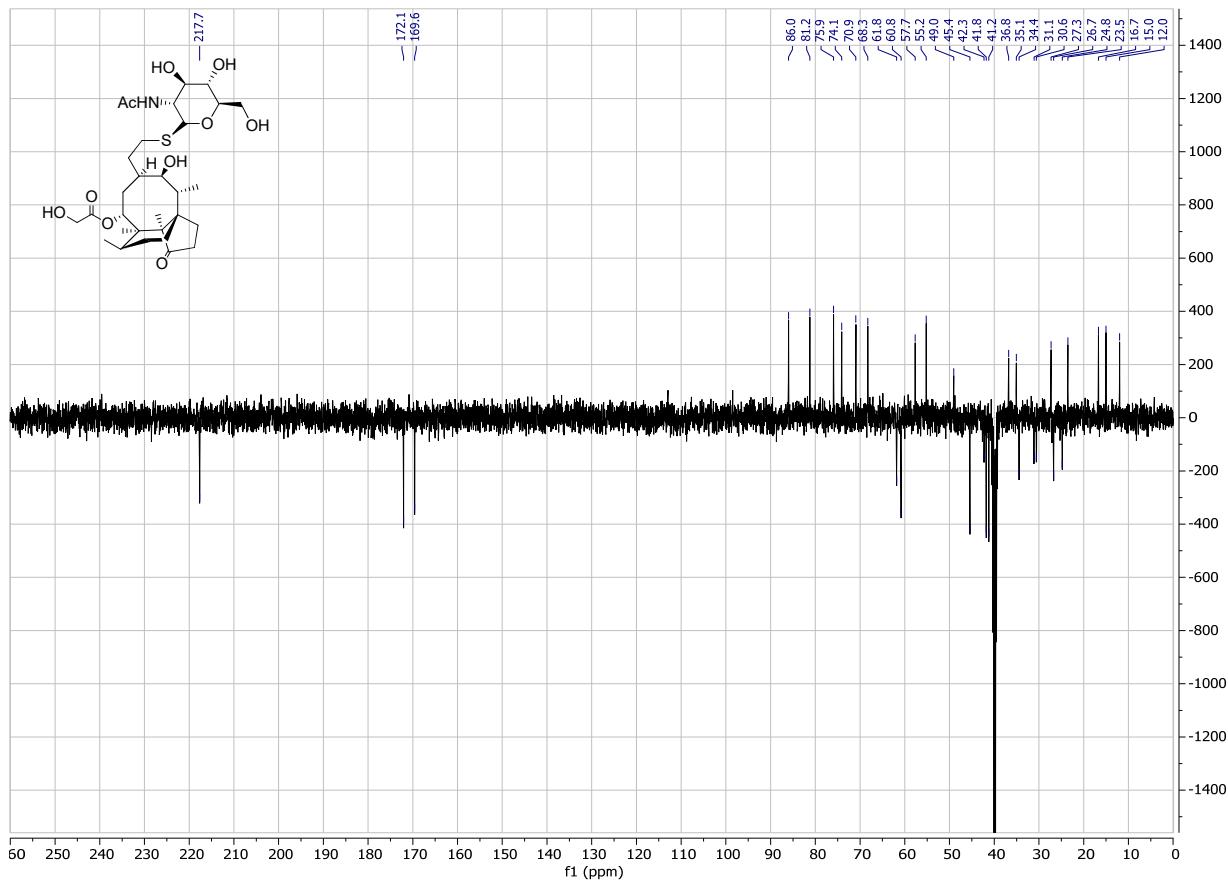
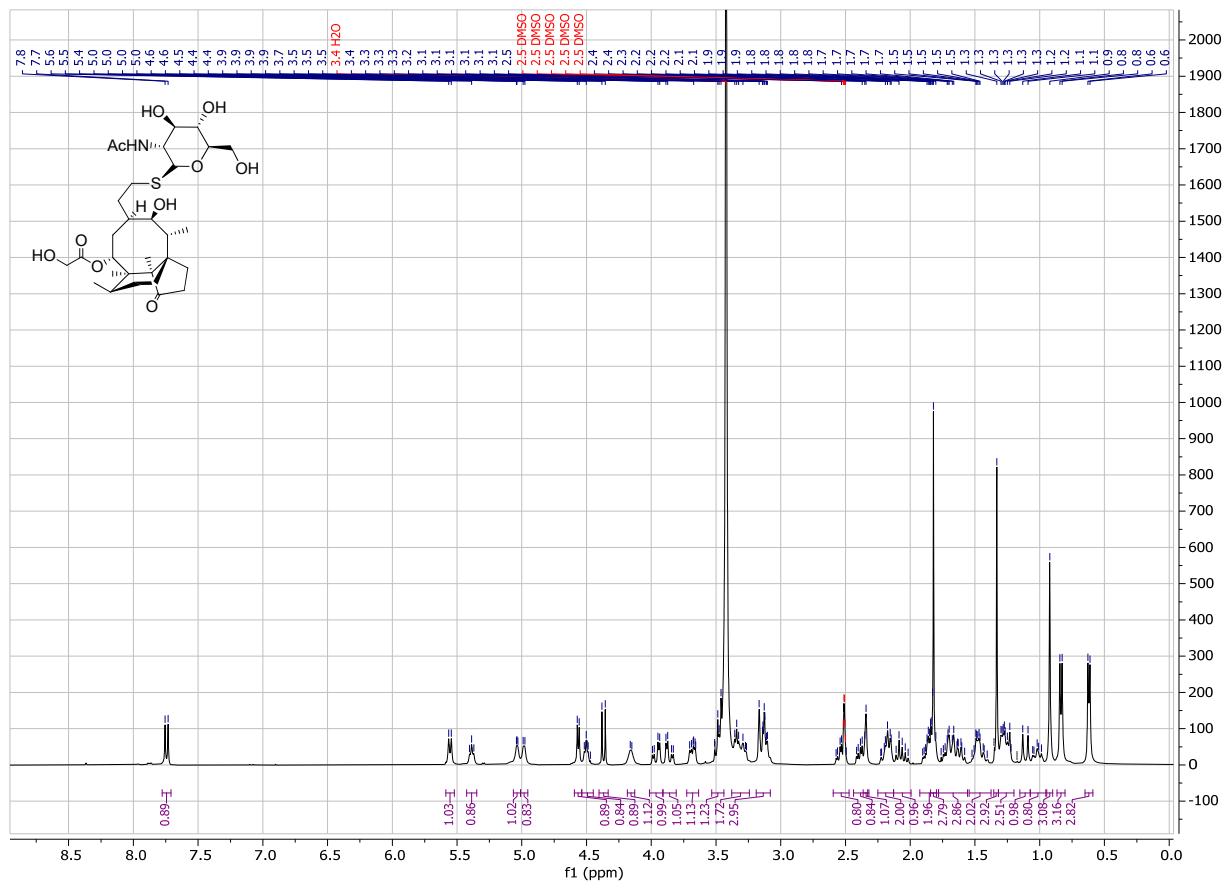


Figure S5. ^1H and ^{13}C NMR spectrum (400 MHz, DMSO) of compound **10e**.

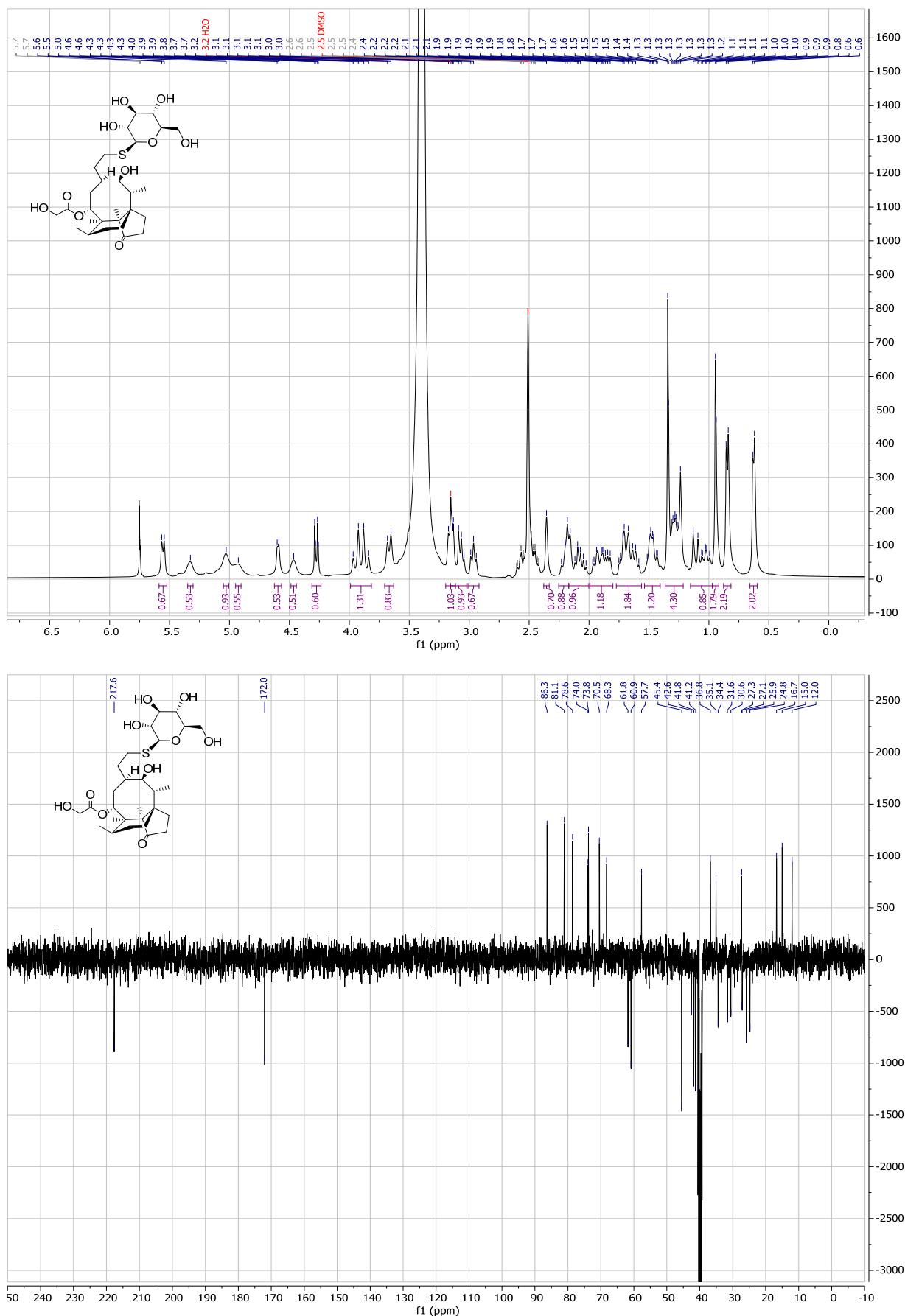


Figure S6. ^1H and ^{13}C NMR spectrum (400 MHz, DMSO) of compound **10f**.

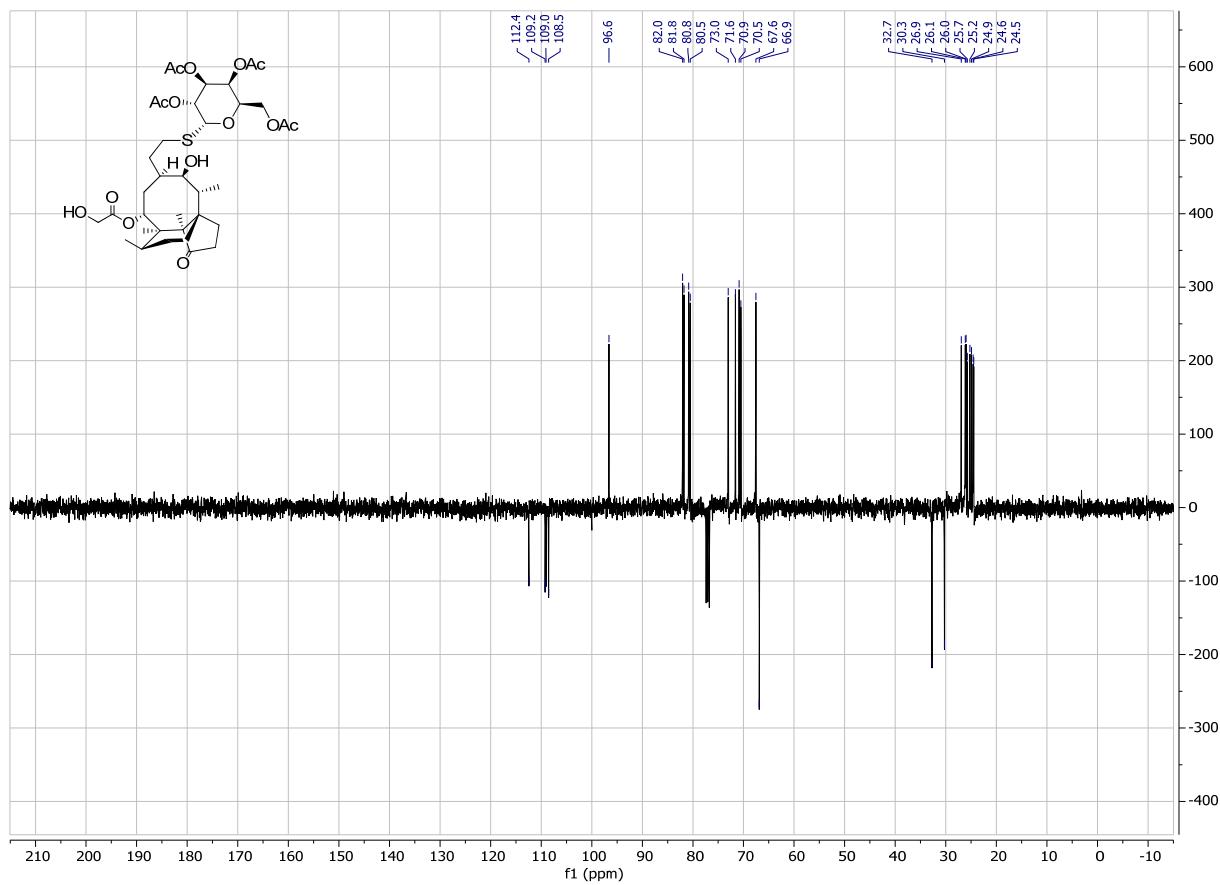
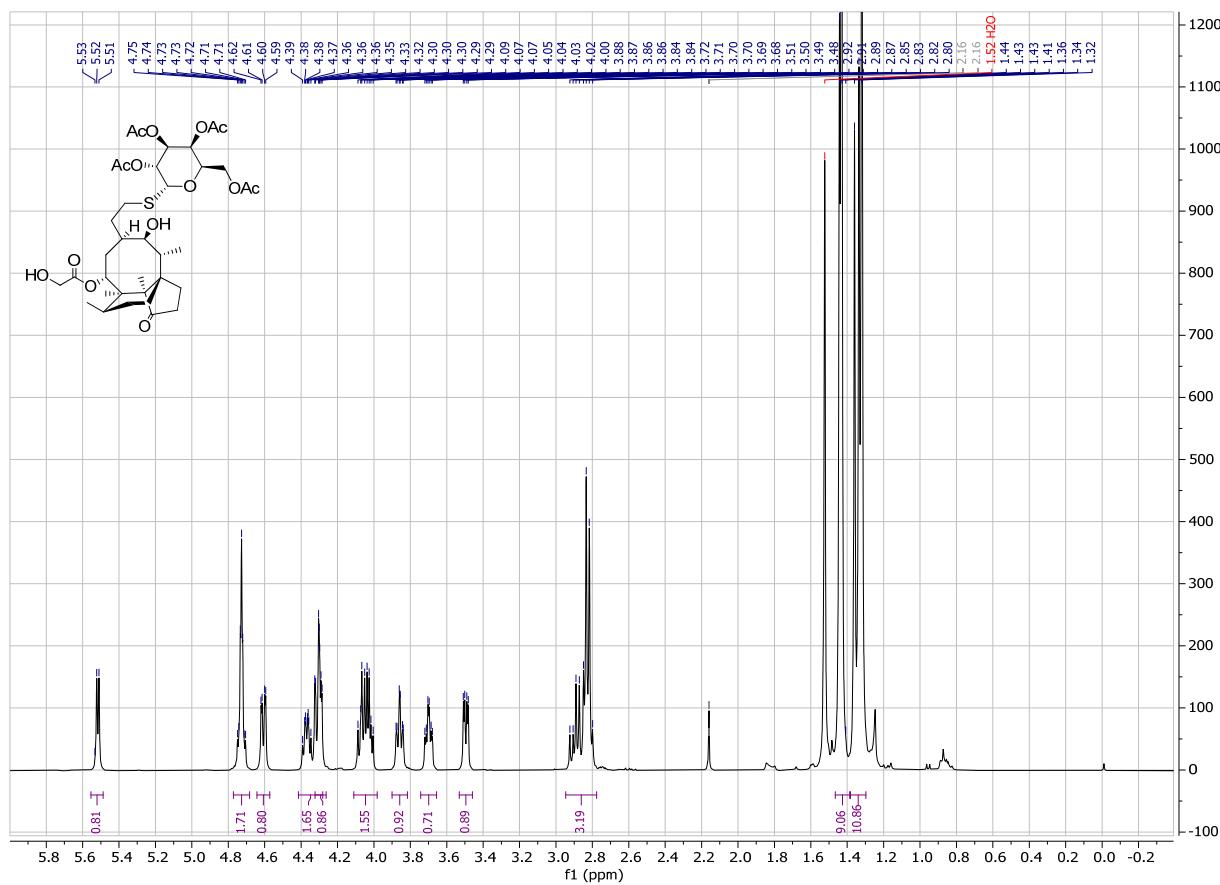


Figure S7. ¹H and ¹³C NMR spectrum (360 MHz, CDCl₃) of compound 10g.

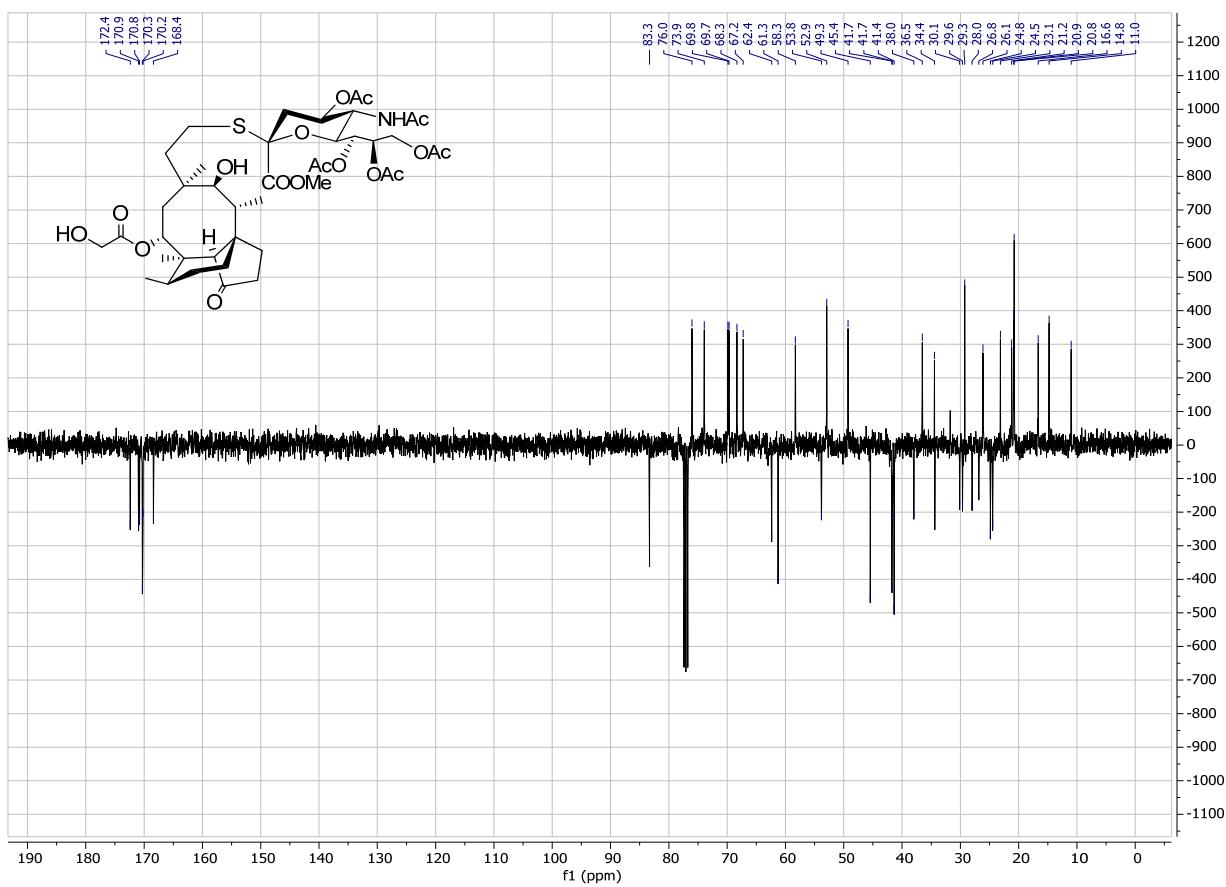
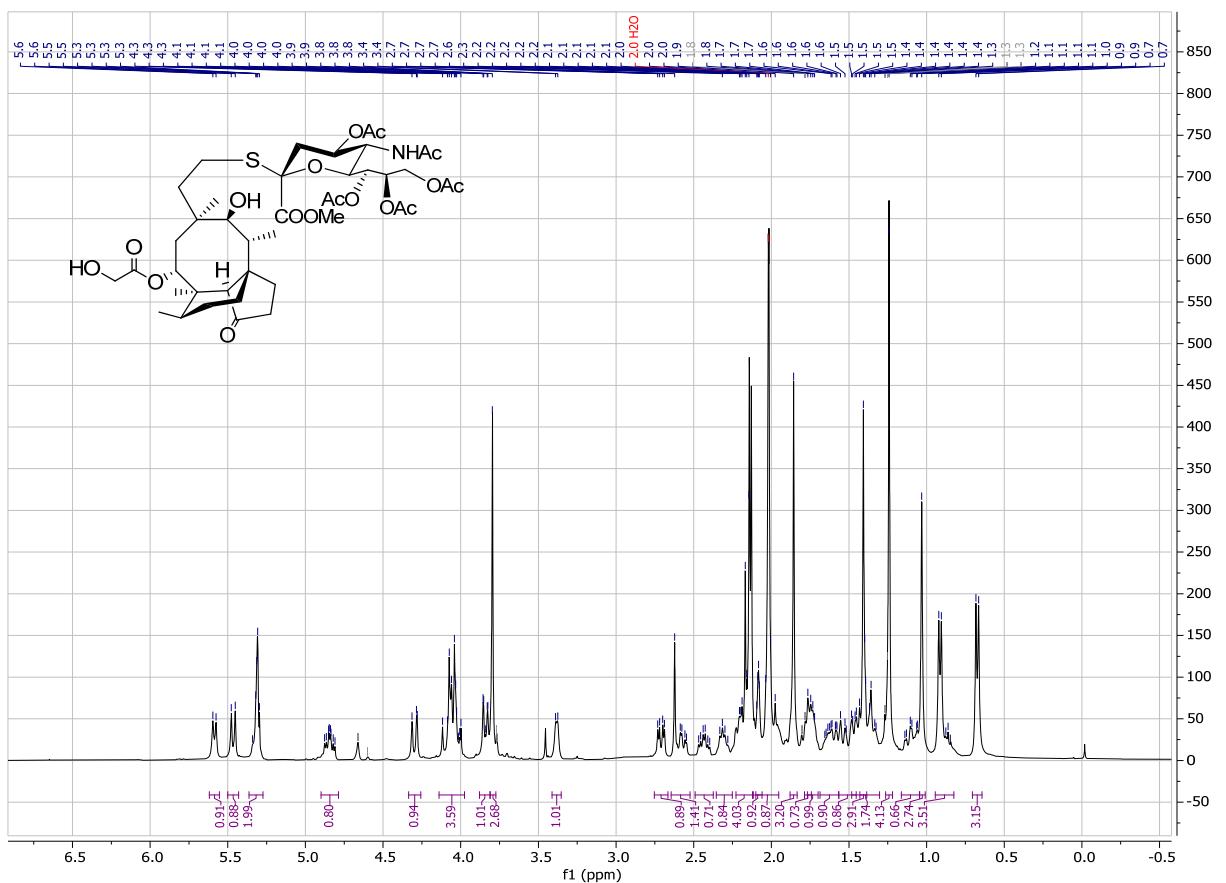


Figure S8. ^1H and ^{13}C NMR spectrum (400 MHz, CDCl_3) of compound **10h**.

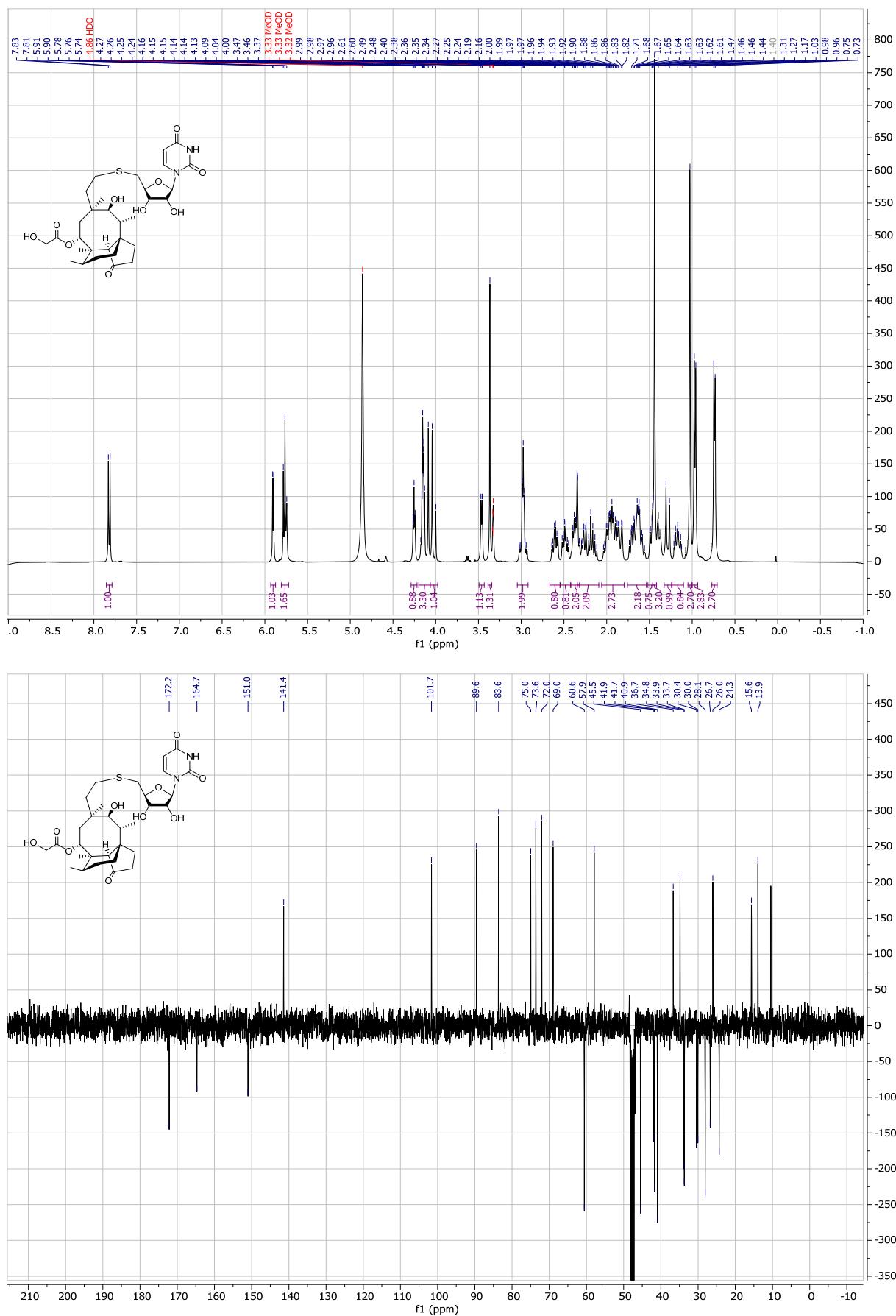


Figure S9. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound **10i**.

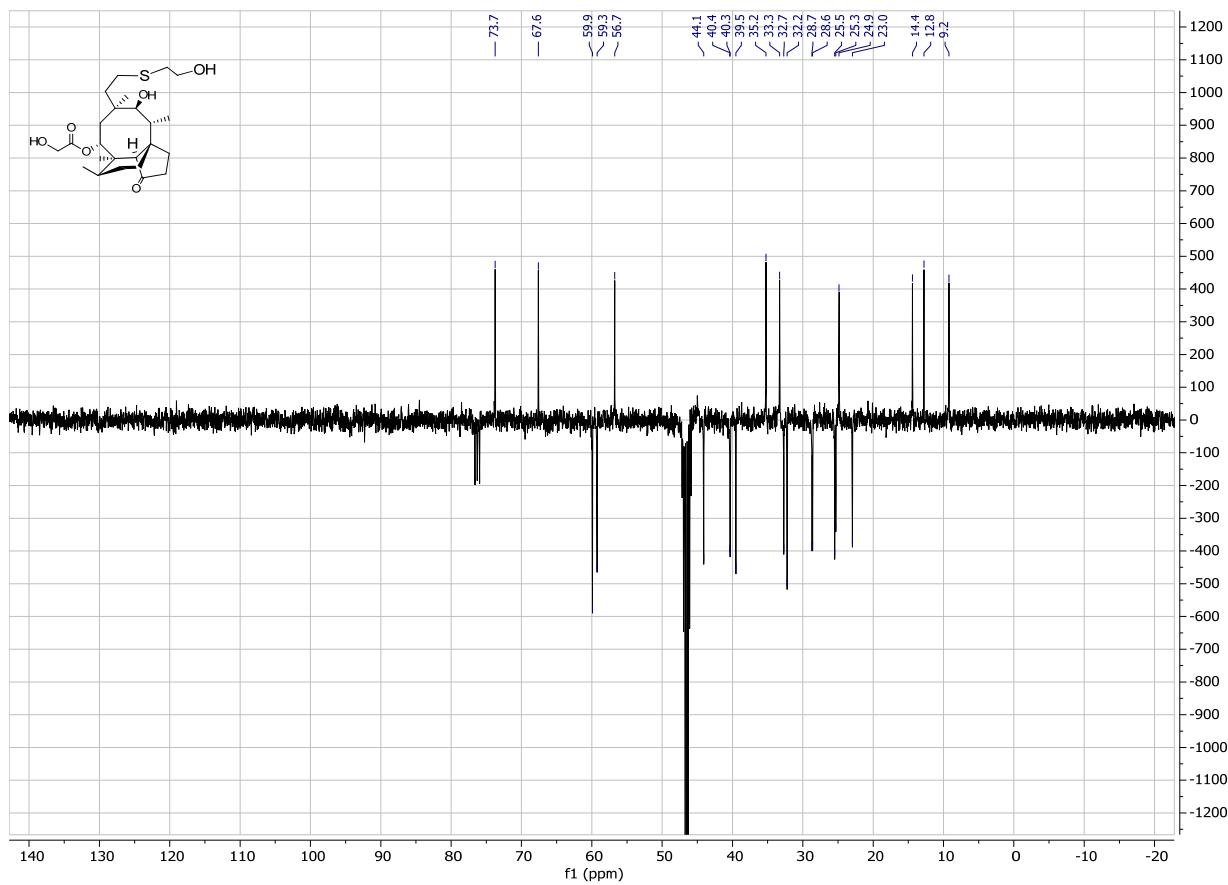
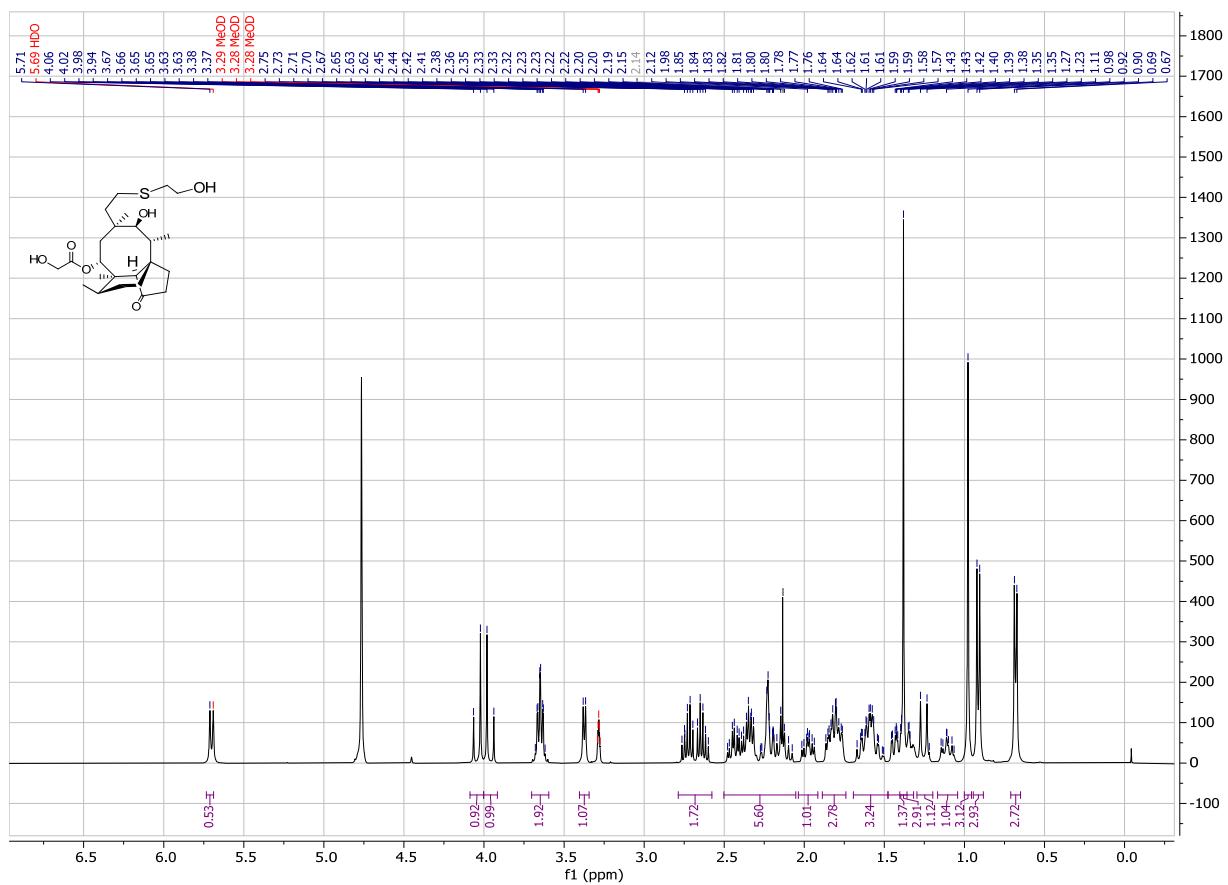


Figure S10. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound 10j.

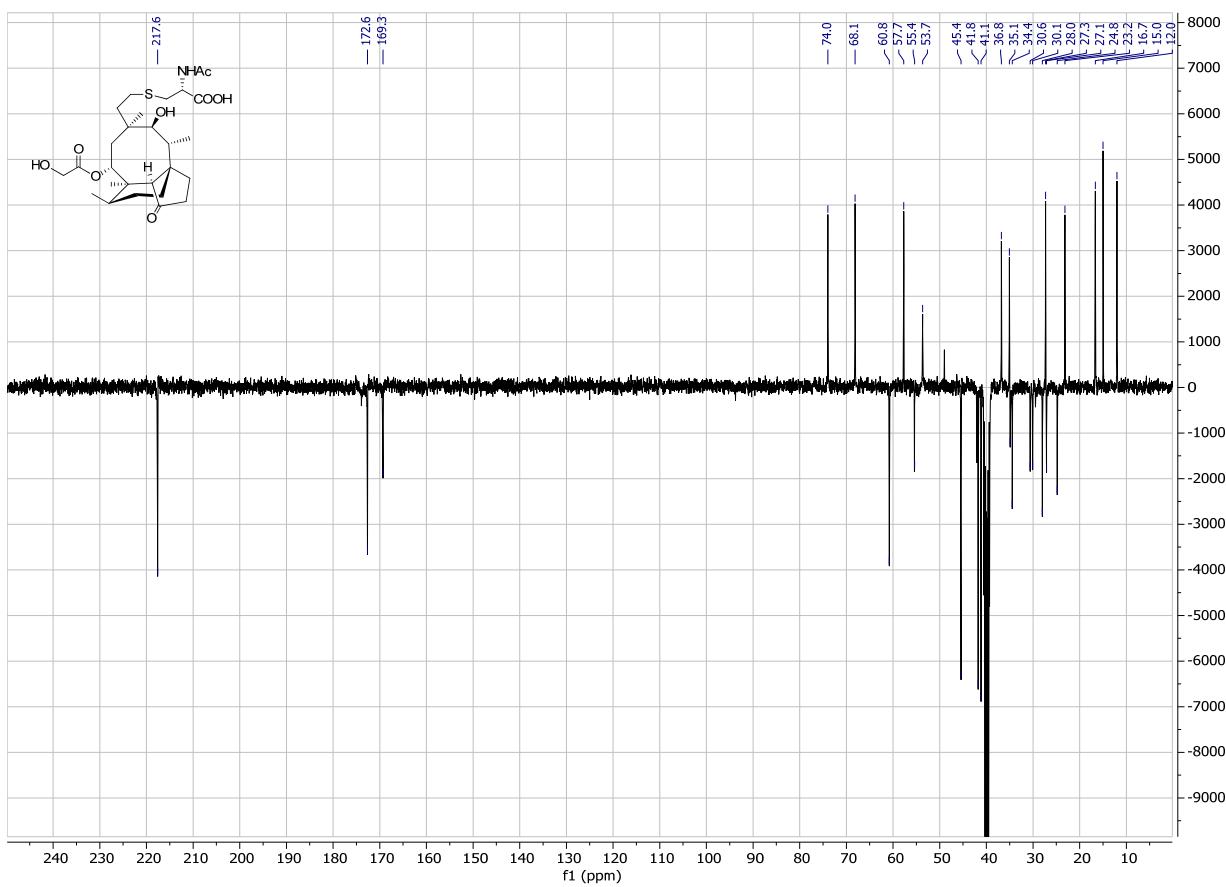
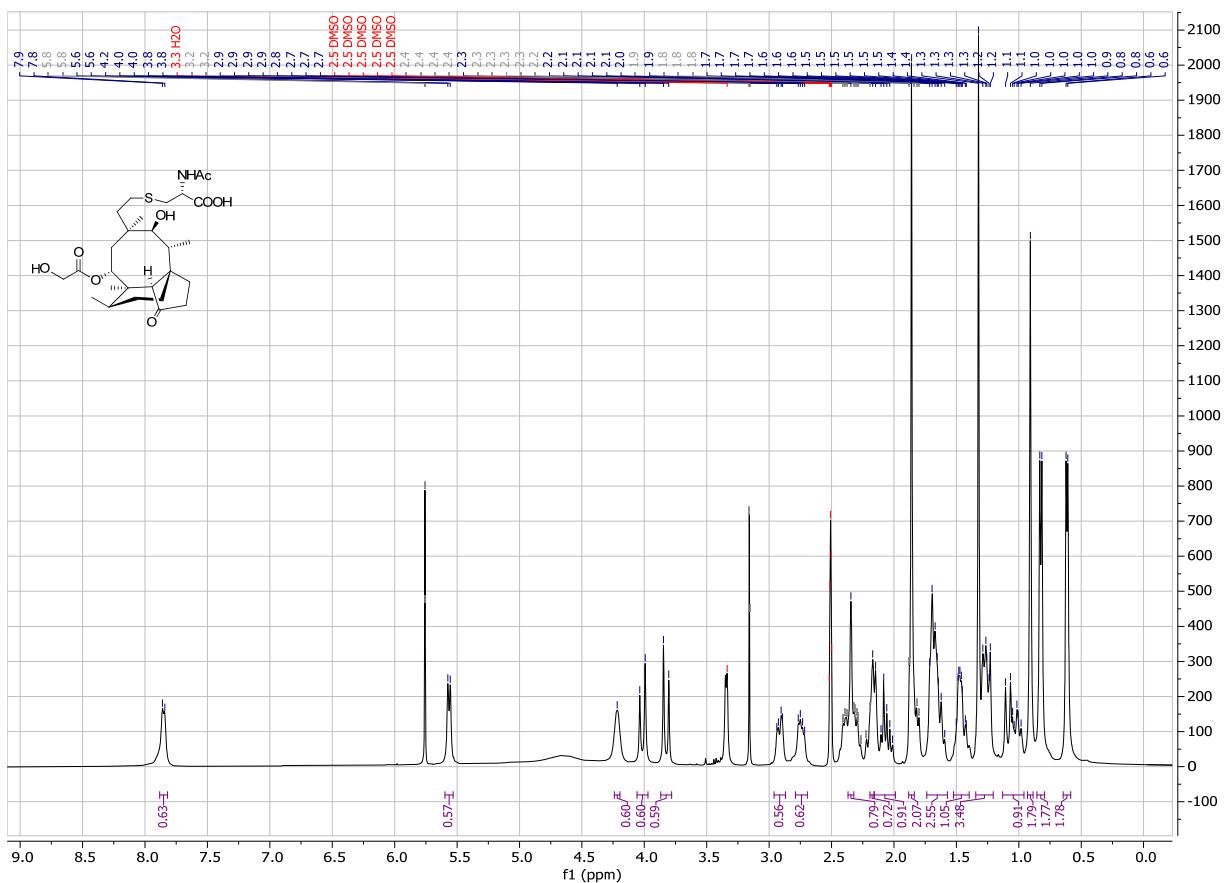


Figure S11. ^1H and ^{13}C NMR spectrum (400 MHz, DMSO) of compound 10k.

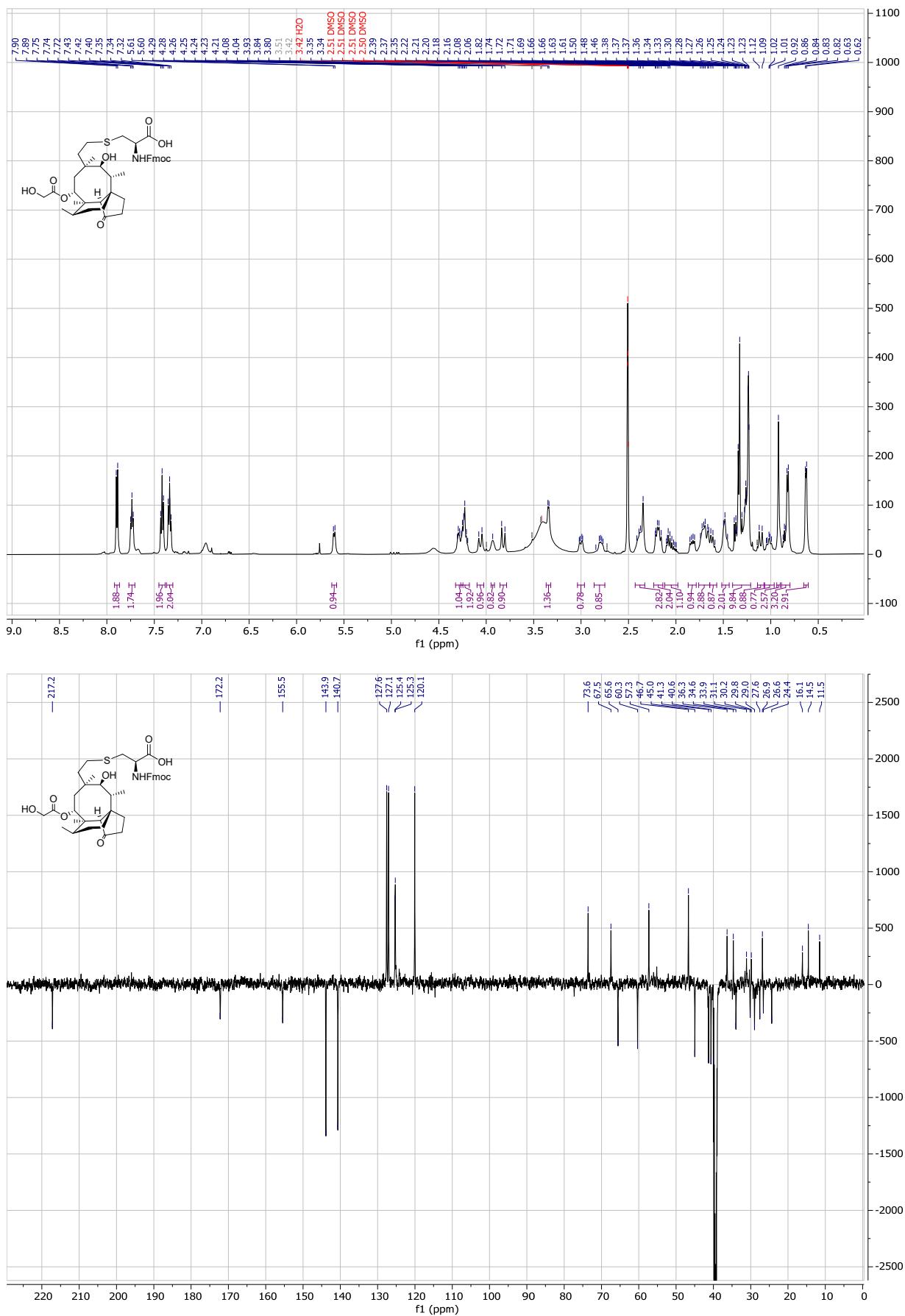


Figure S12. ^1H and ^{13}C NMR spectrum (500 MHz, MeOD) of compound **101**.

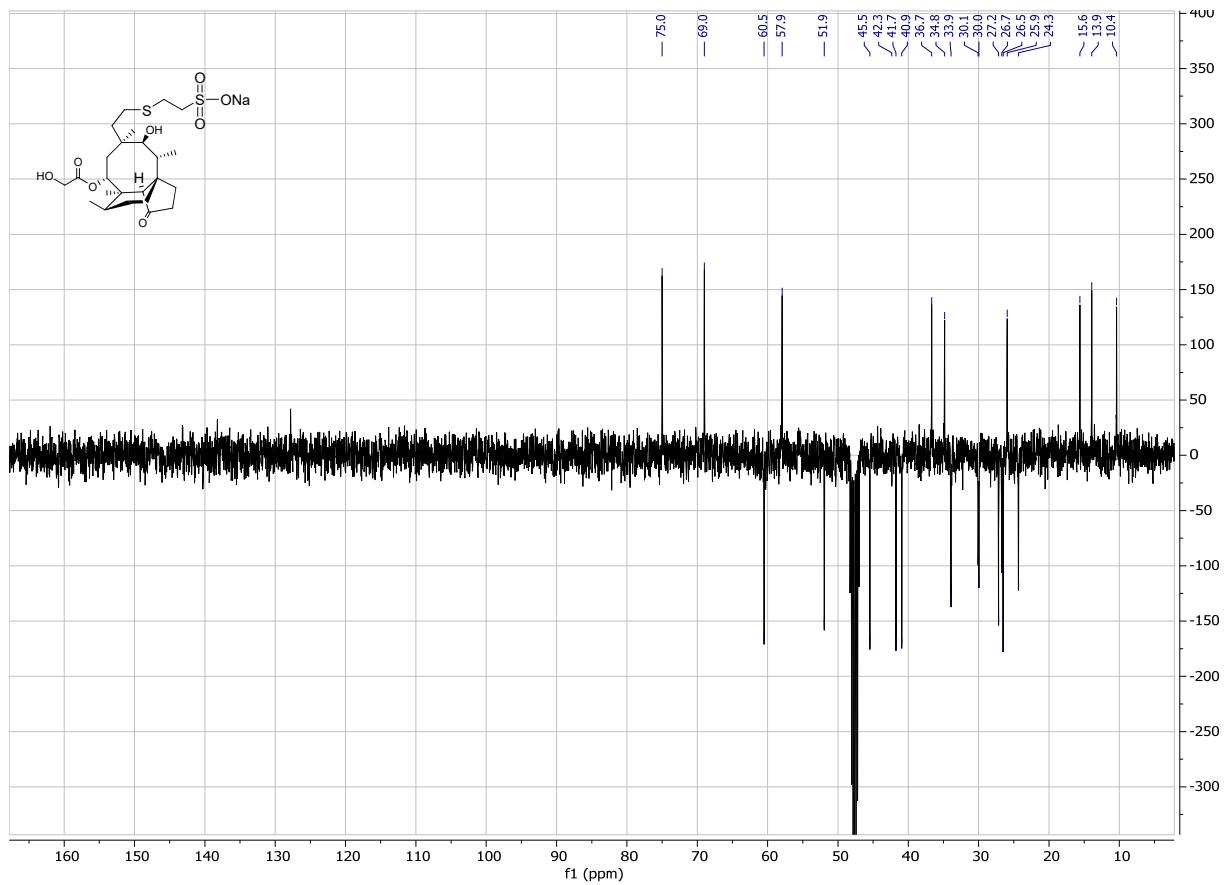
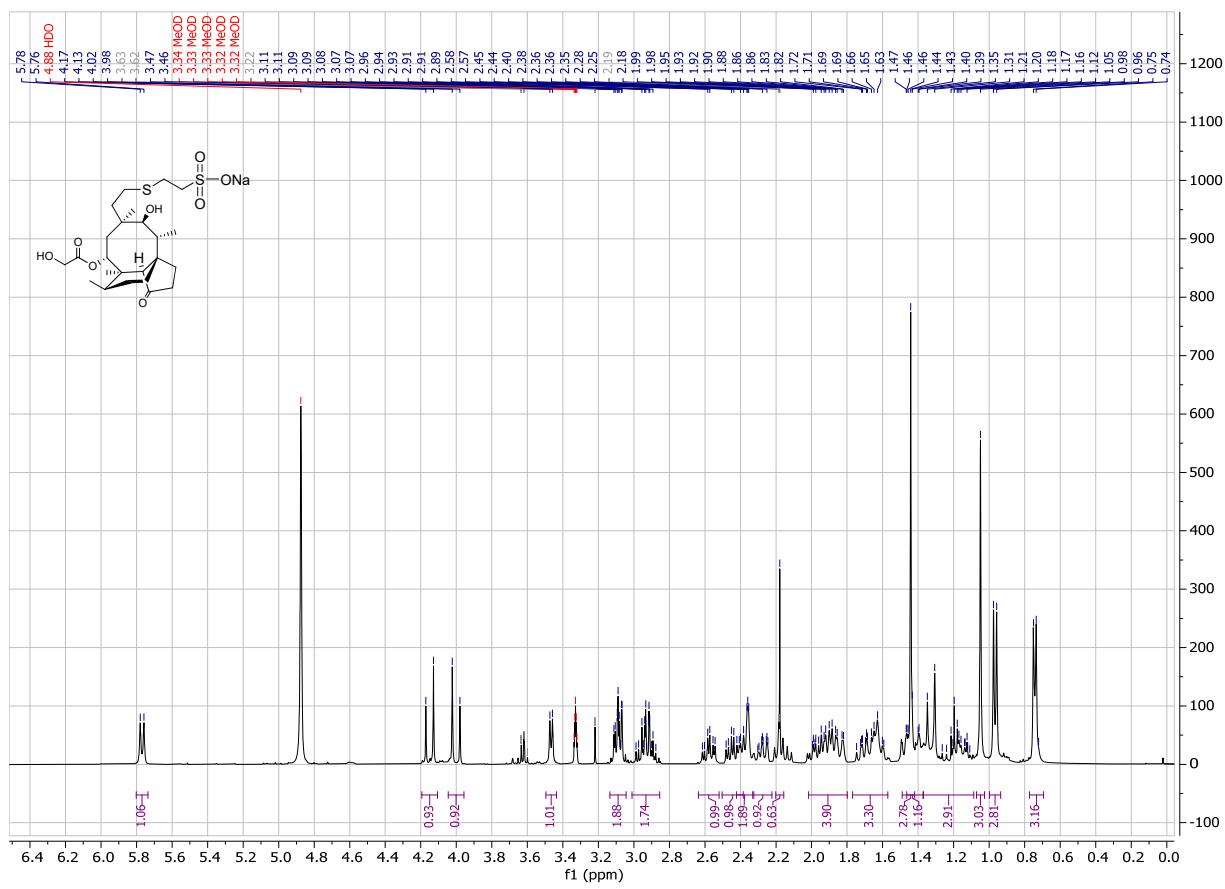


Figure S13. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound **10m**.

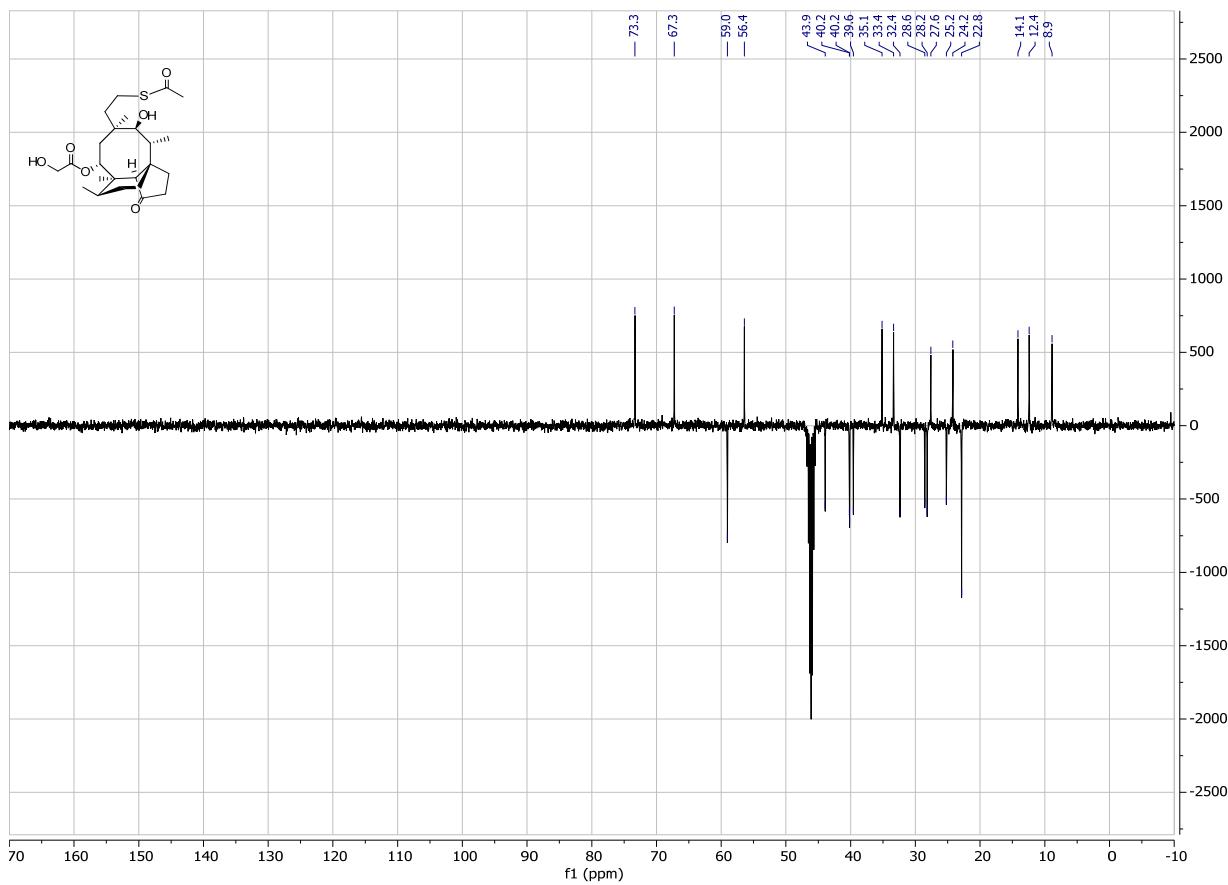
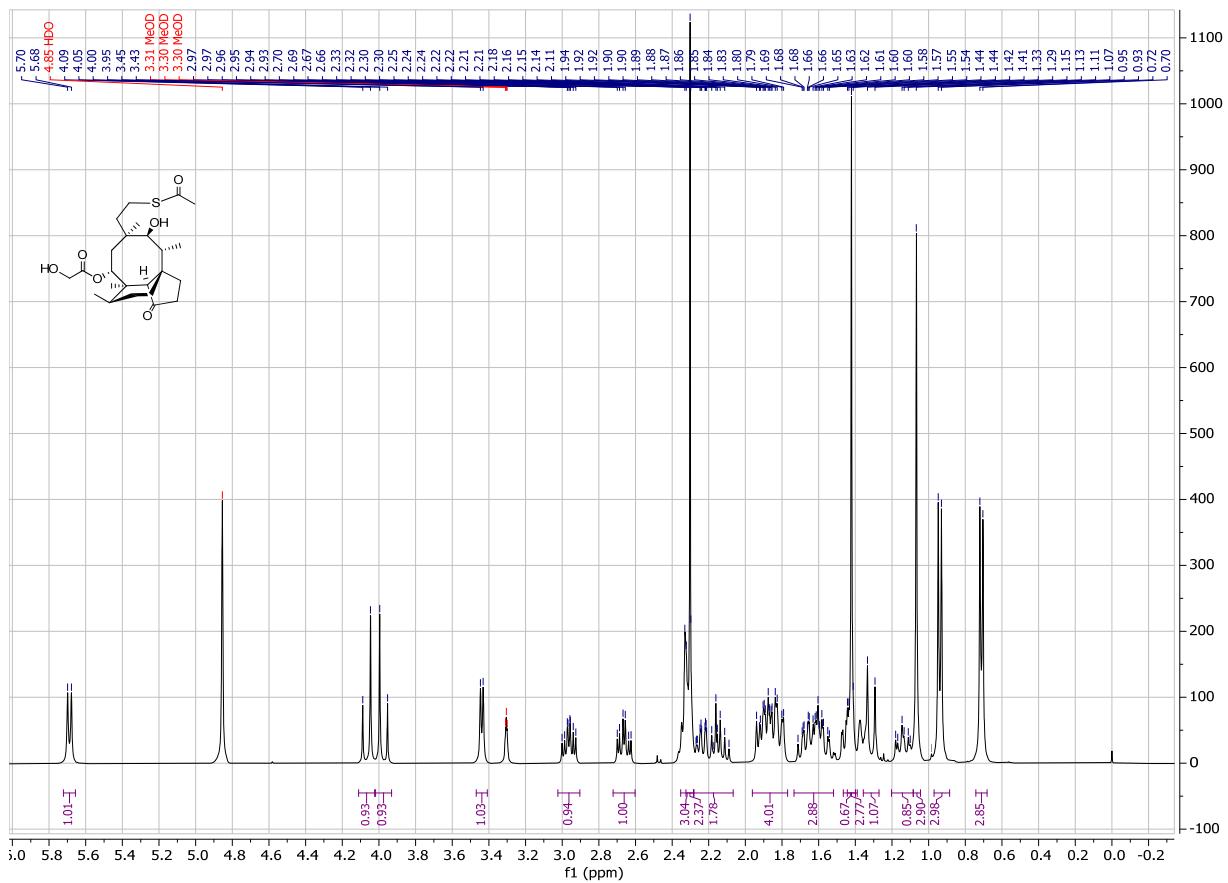


Figure S14. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound **10n**.

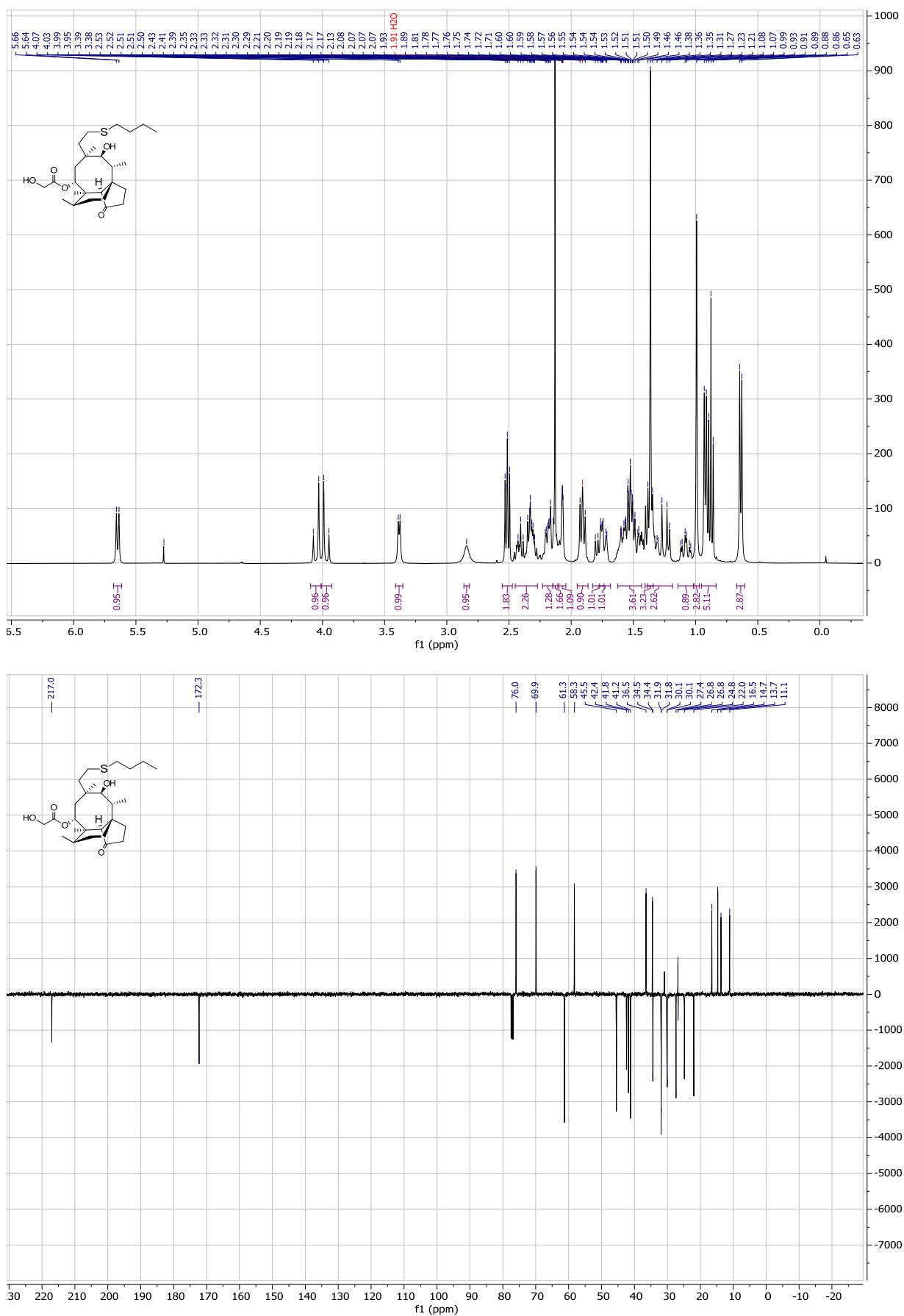


Figure S15. ¹H and ¹³C NMR spectrum (400 MHz, CDCl₃) of compound 10o.

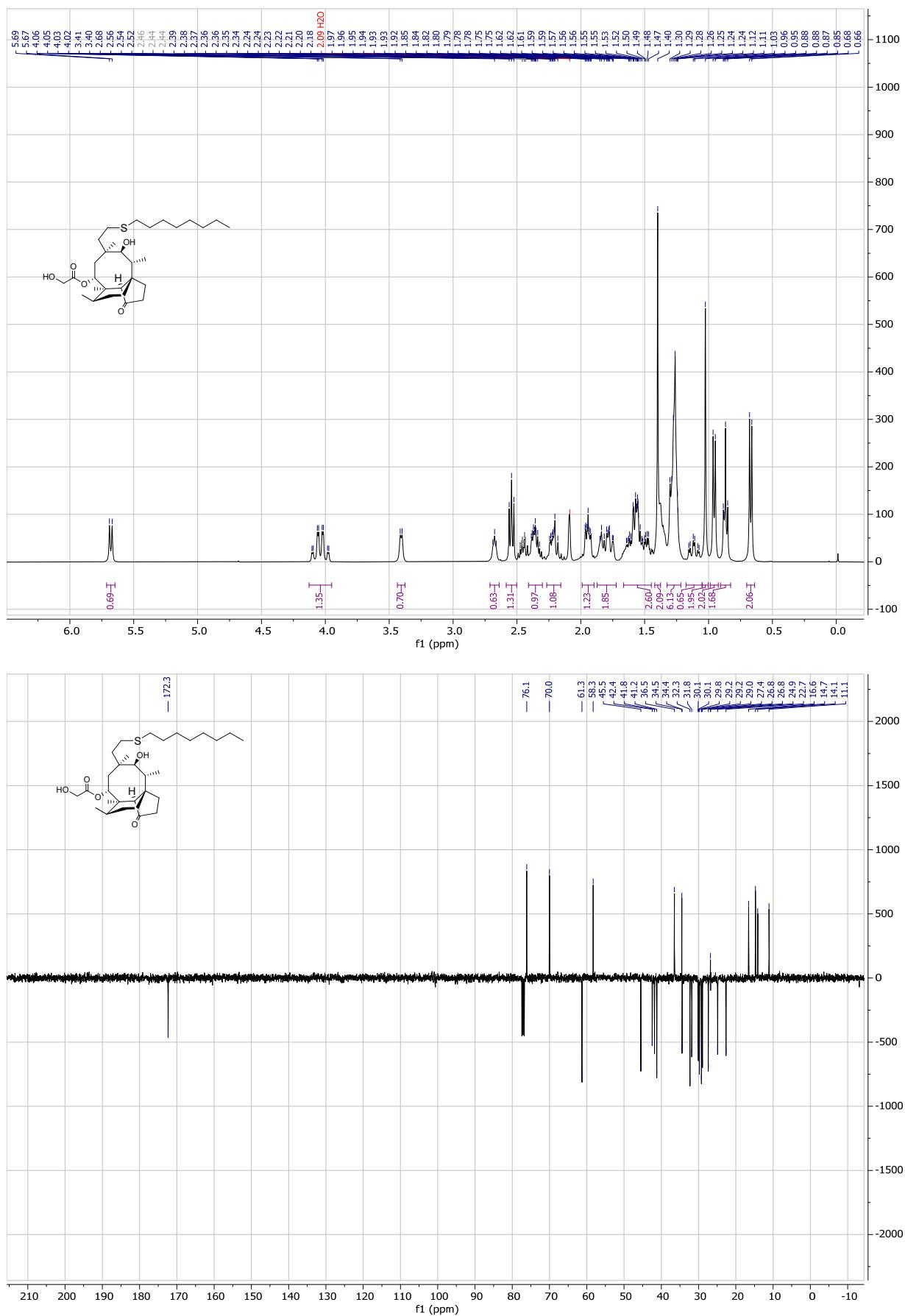


Figure S16. ^1H and ^{13}C NMR spectrum (400 MHz, CDCl_3) of compound **10p**.

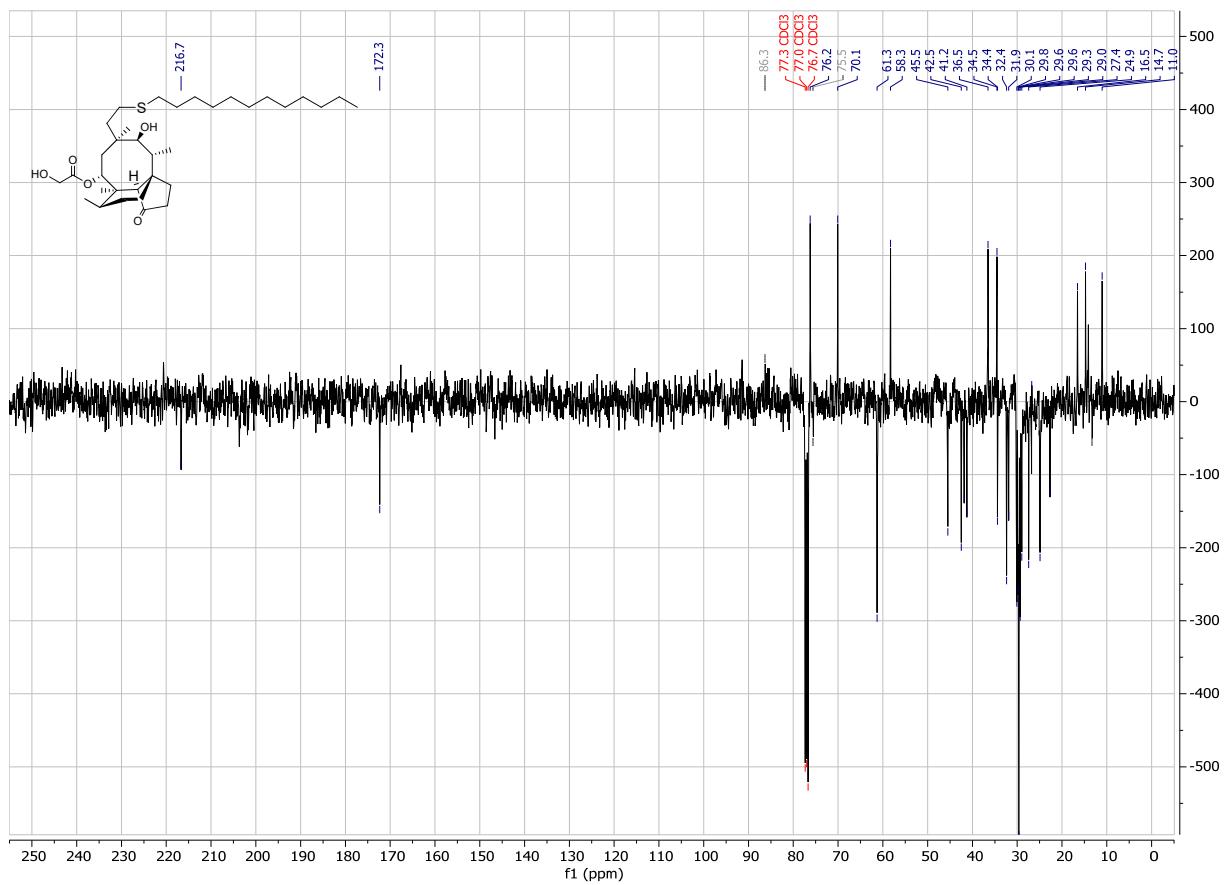
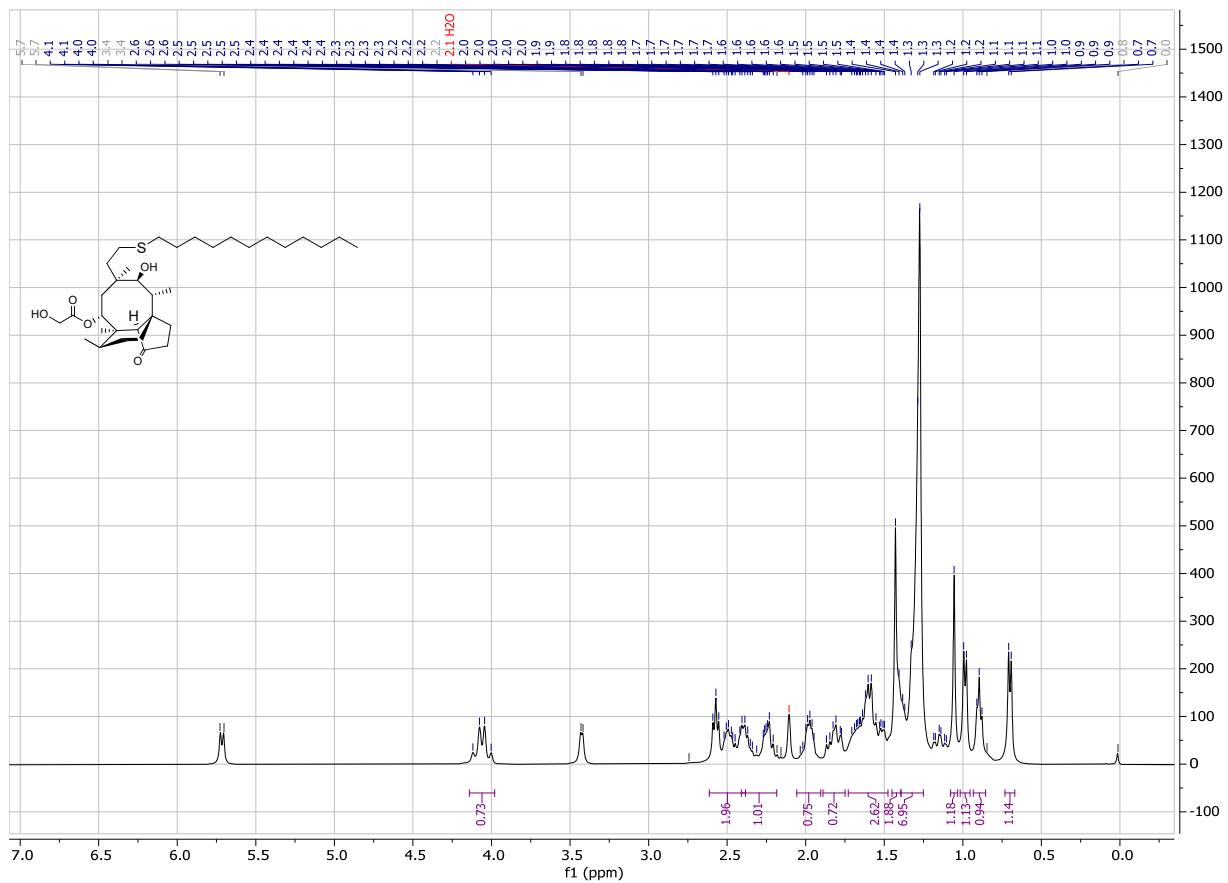


Figure S17. ^1H and ^{13}C NMR spectrum (400 MHz, CDCl_3) of compound **10q**.

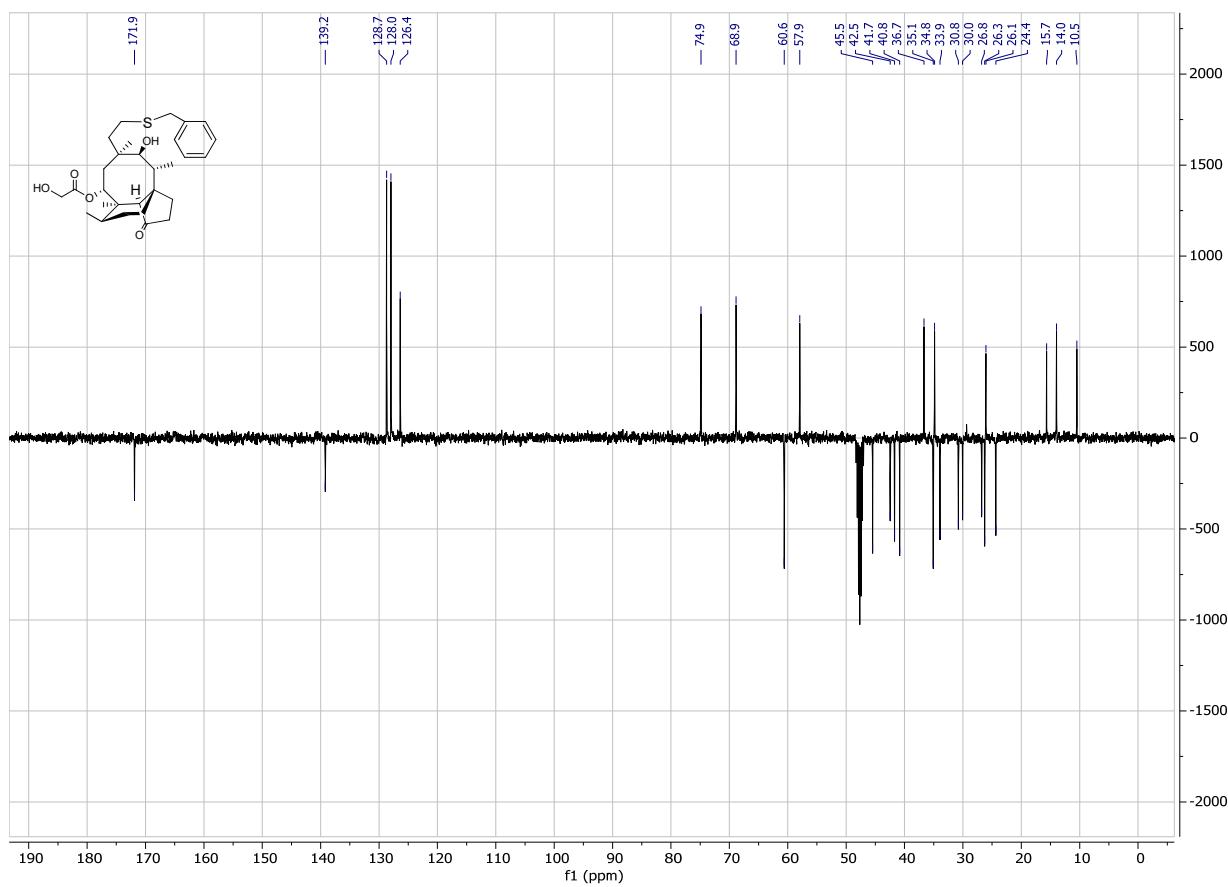
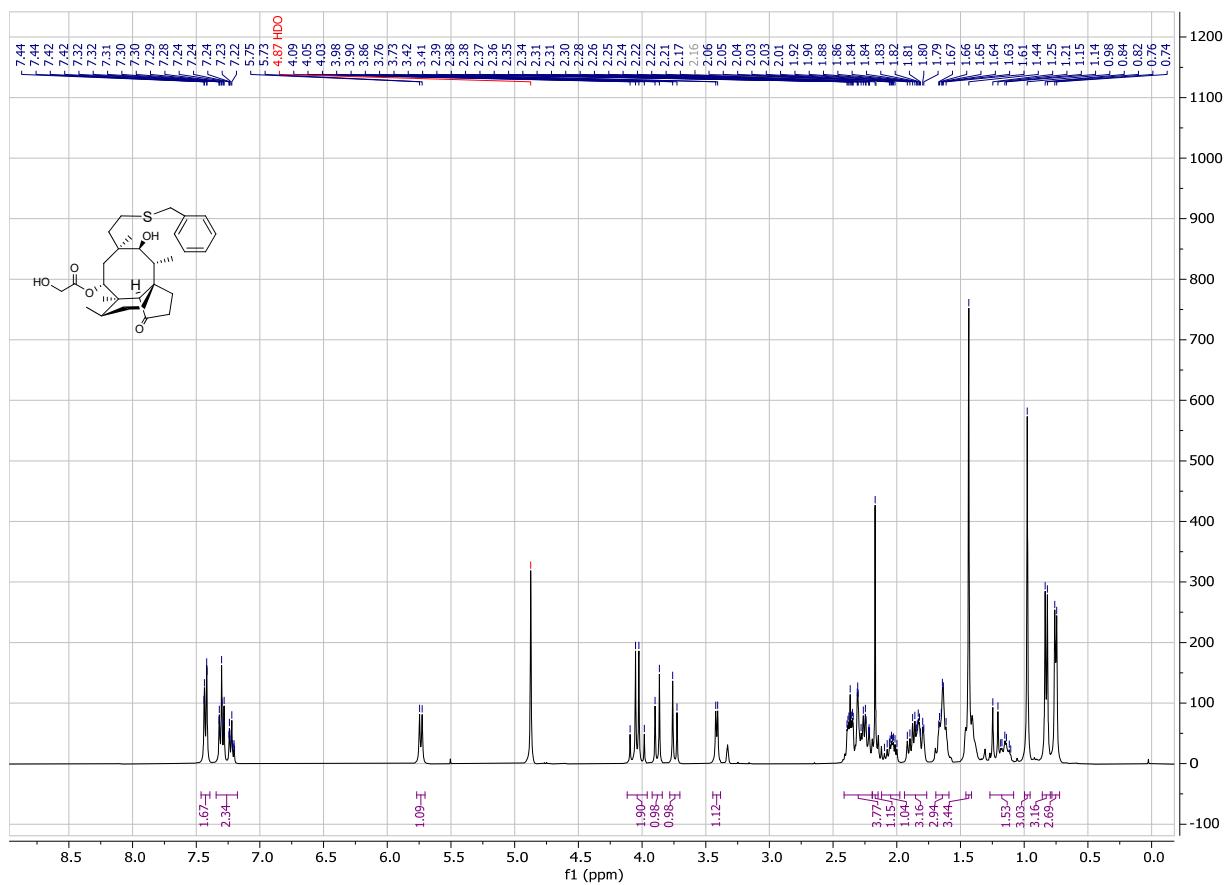


Figure S18. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound **10r**.

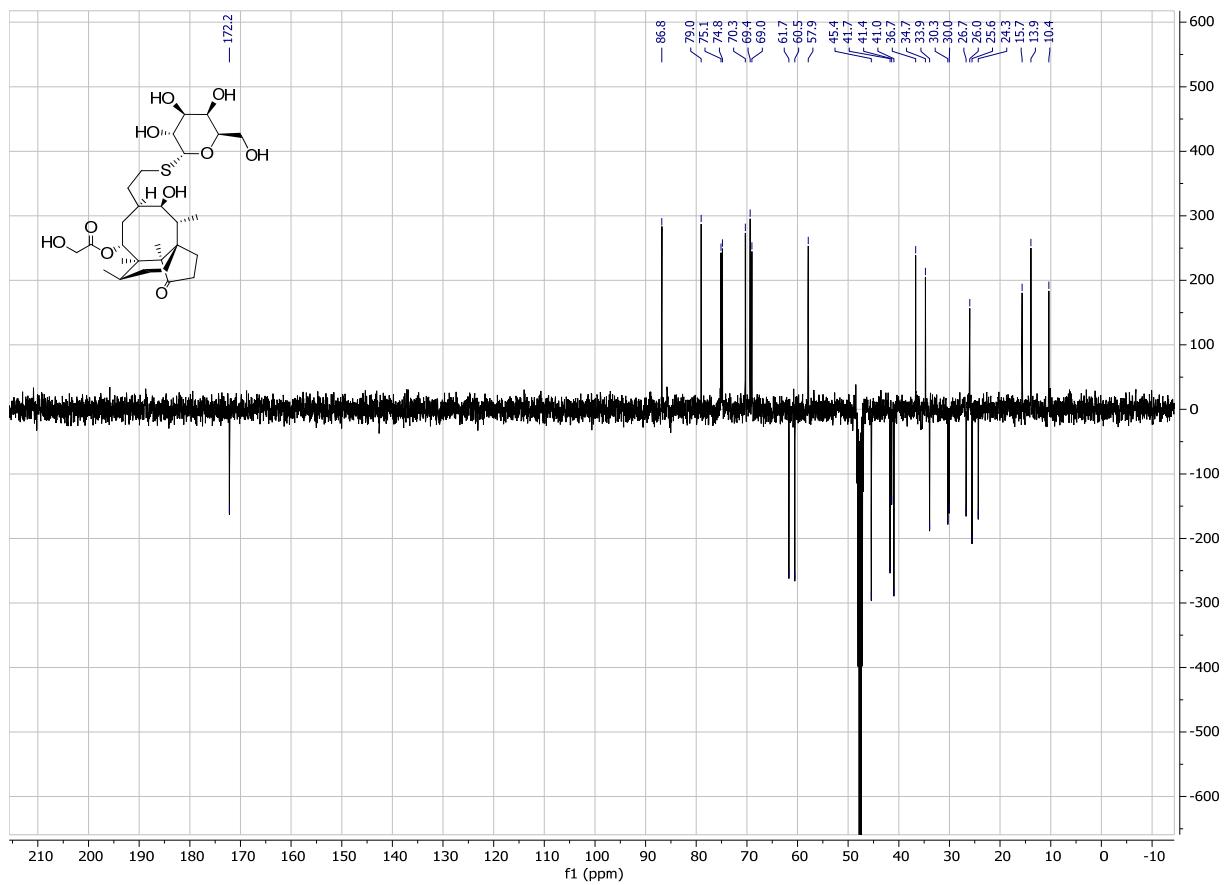
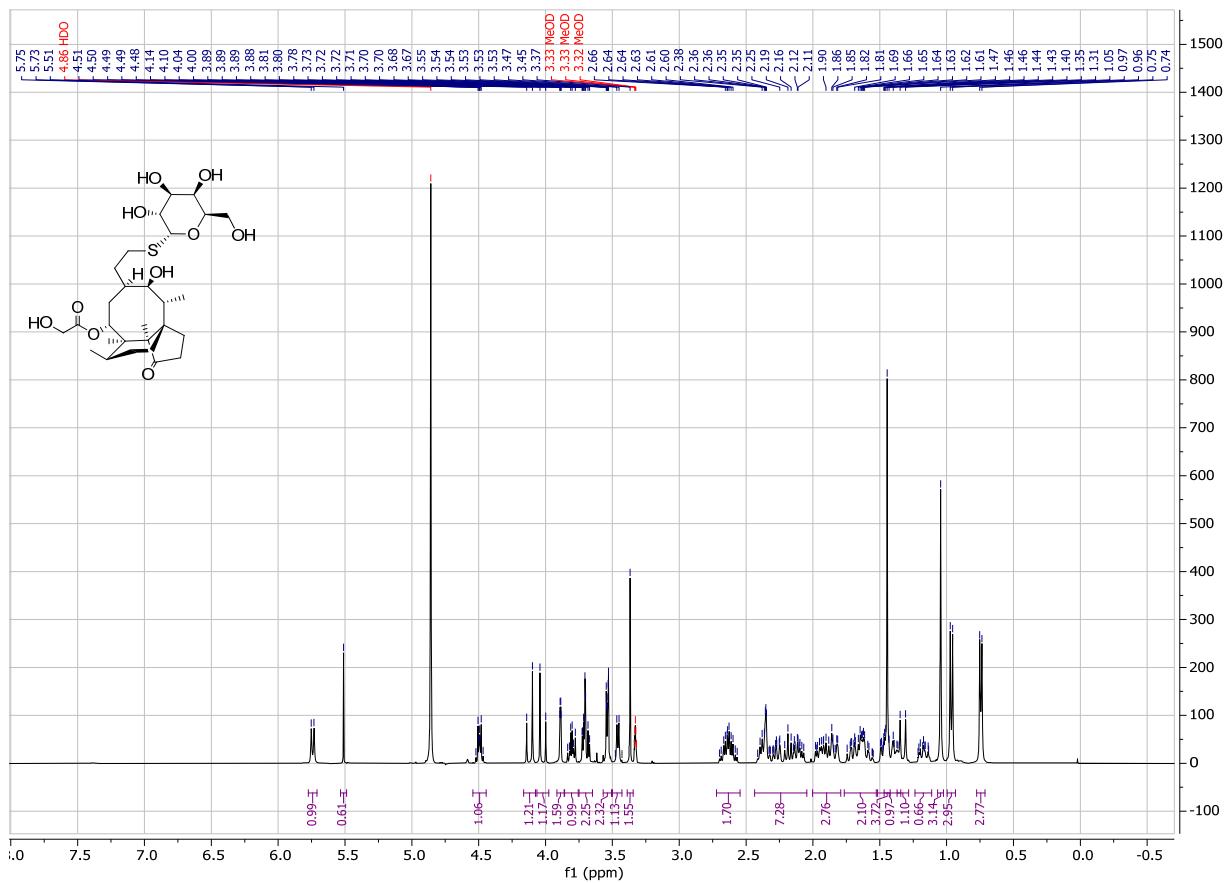


Figure S19. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound 11g.

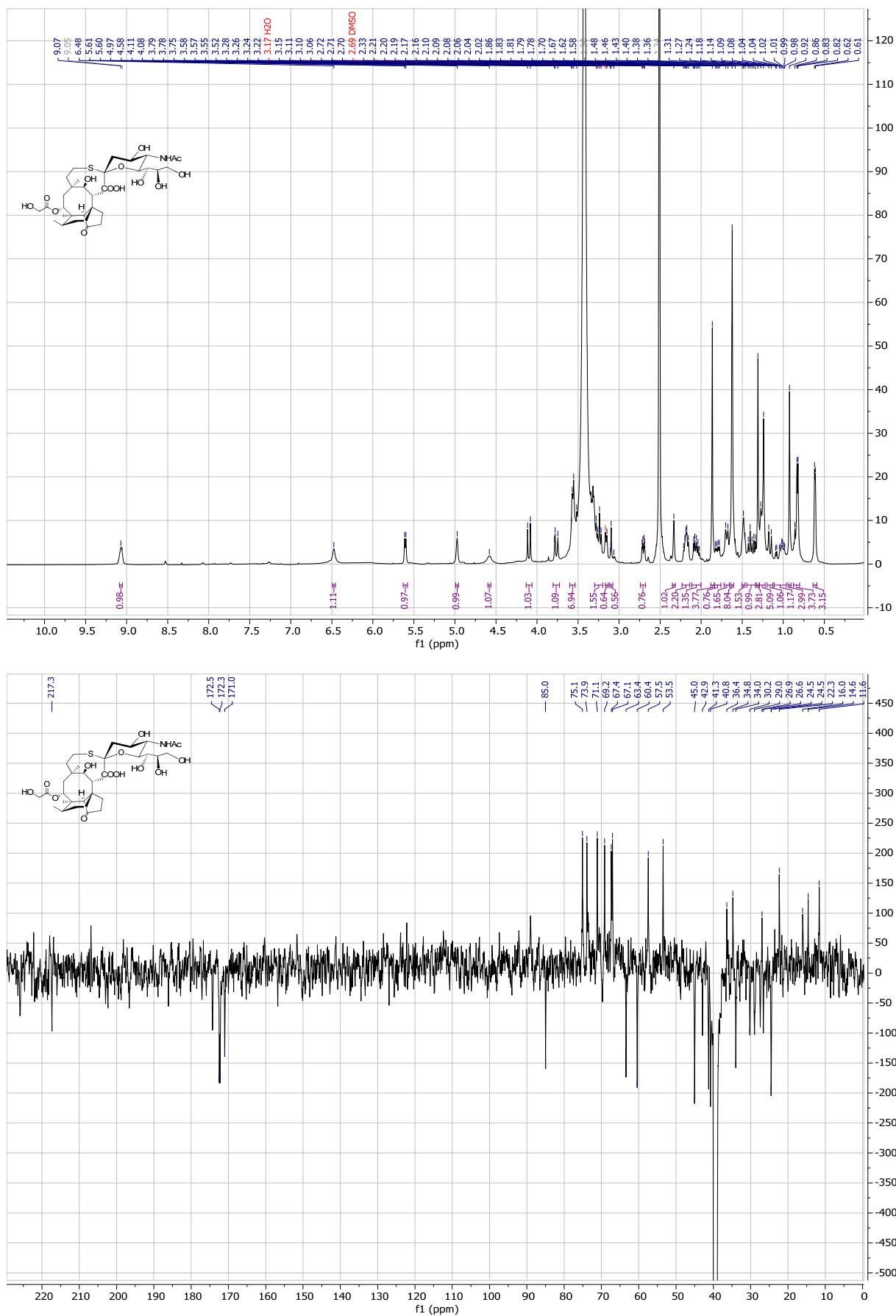


Figure S20. ¹H and ¹³C NMR spectrum (400 MHz, DMSO) of compound 11h.

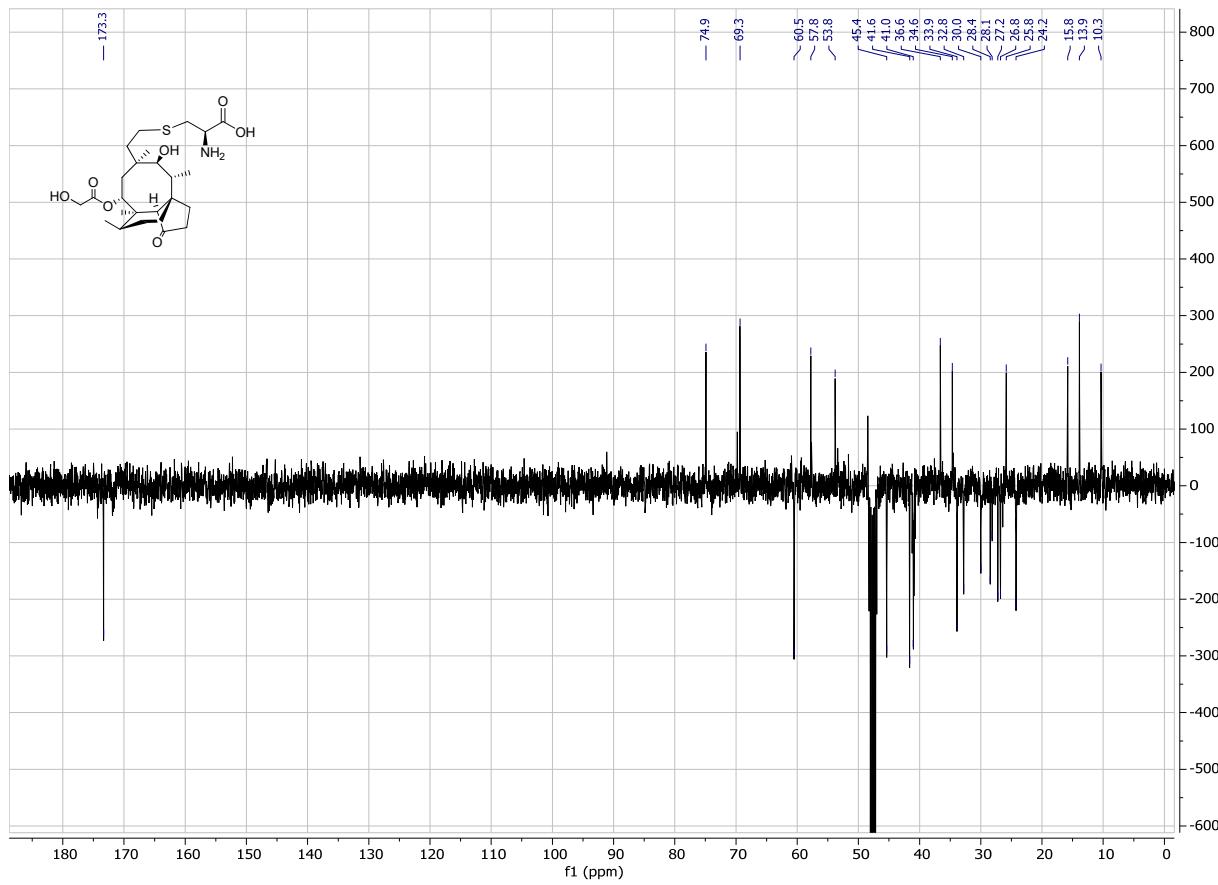
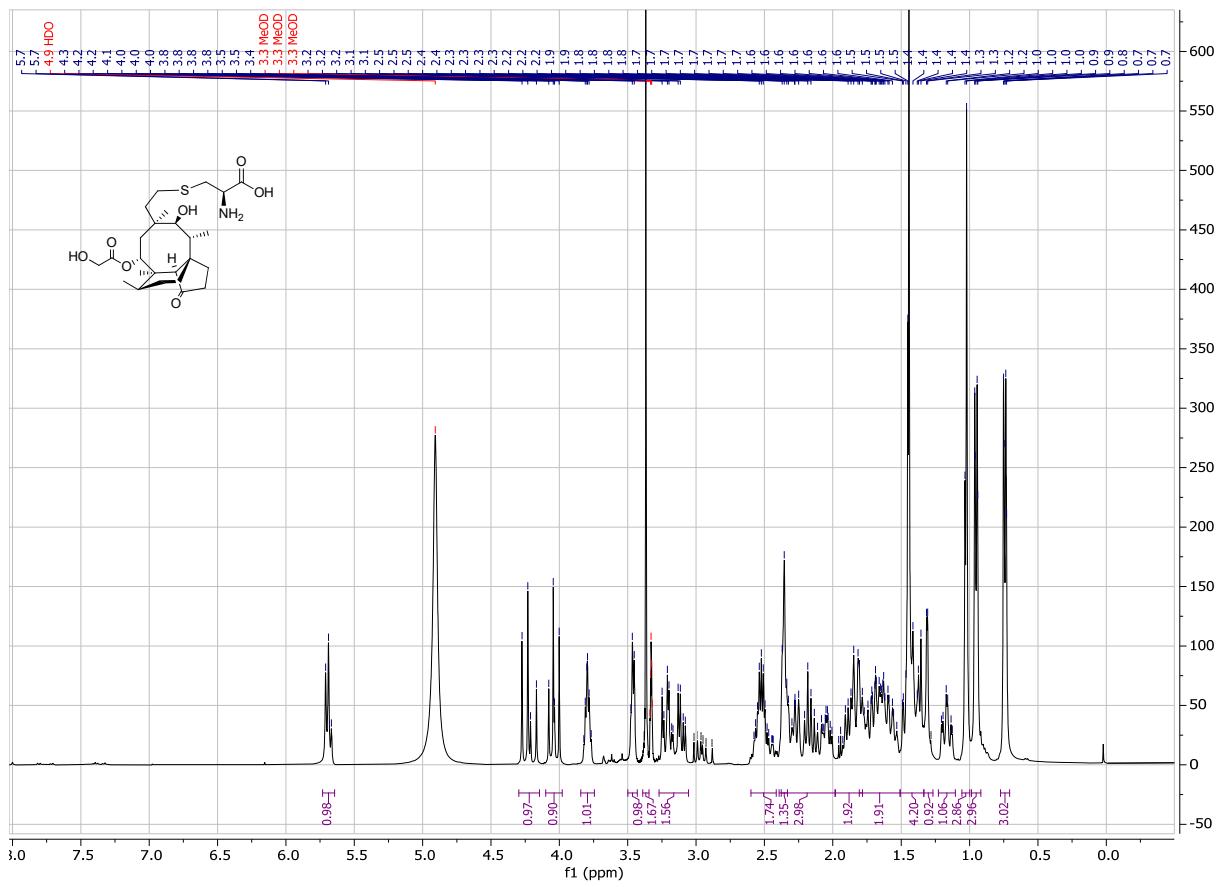


Figure S21. ^1H and ^{13}C NMR spectrum (400 MHz, MeOD) of compound 111.

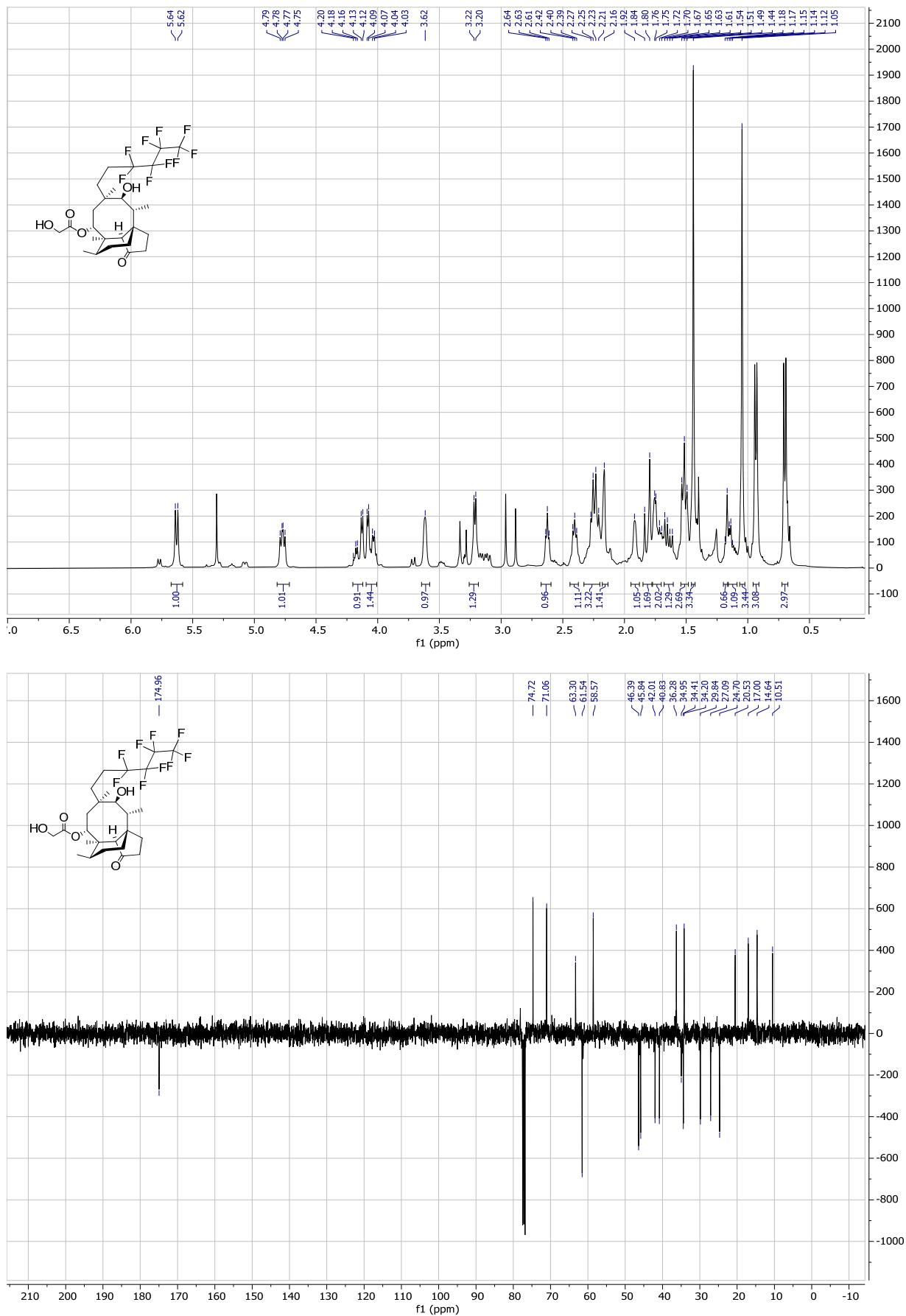


Figure S22. ^1H and ^{13}C NMR spectrum (400 MHz, CDCl_3) of compound **13a**.

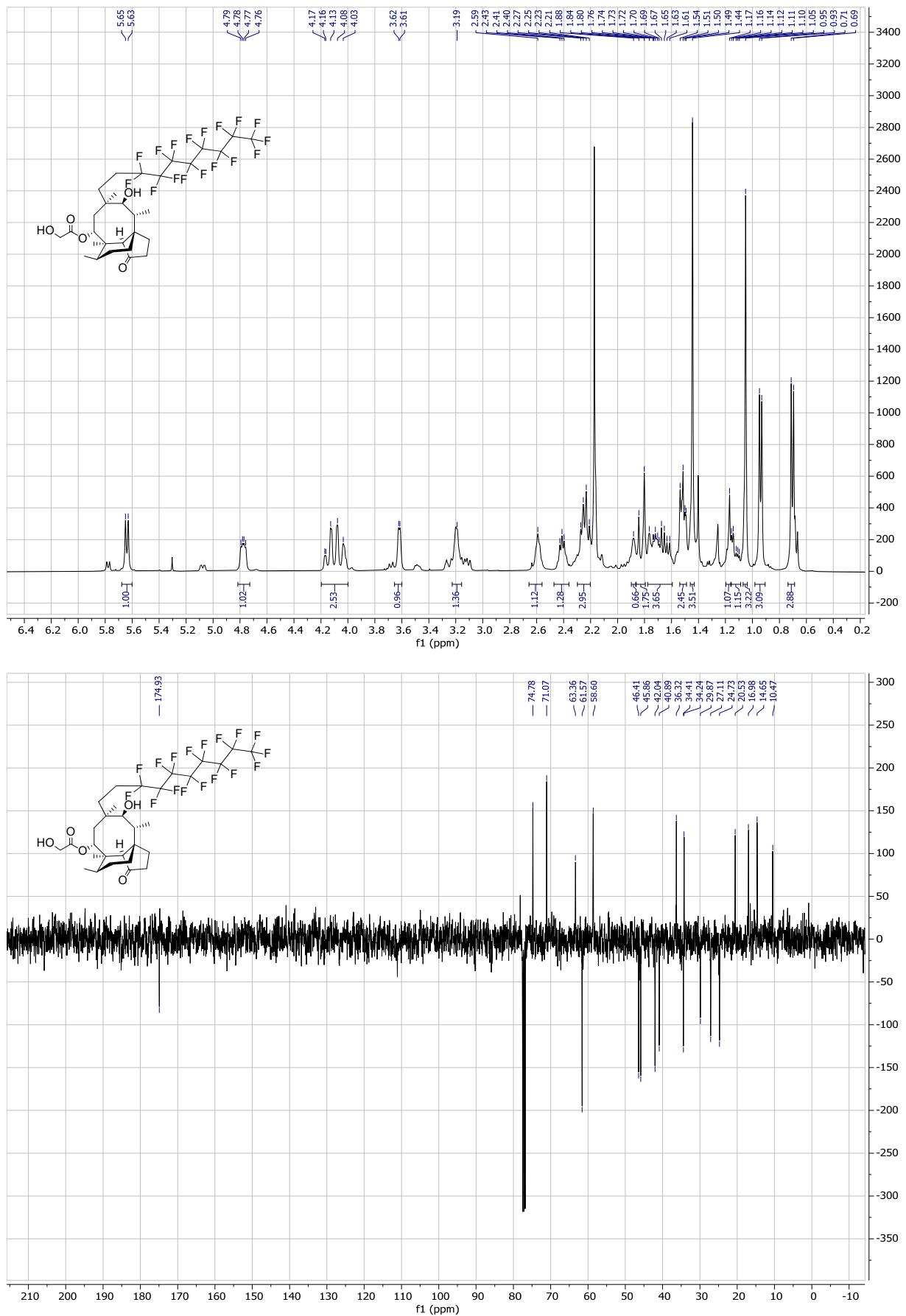


Figure S23. ^1H and ^{13}C NMR spectrum (400 MHz, CDCl_3) of compound **13b**.

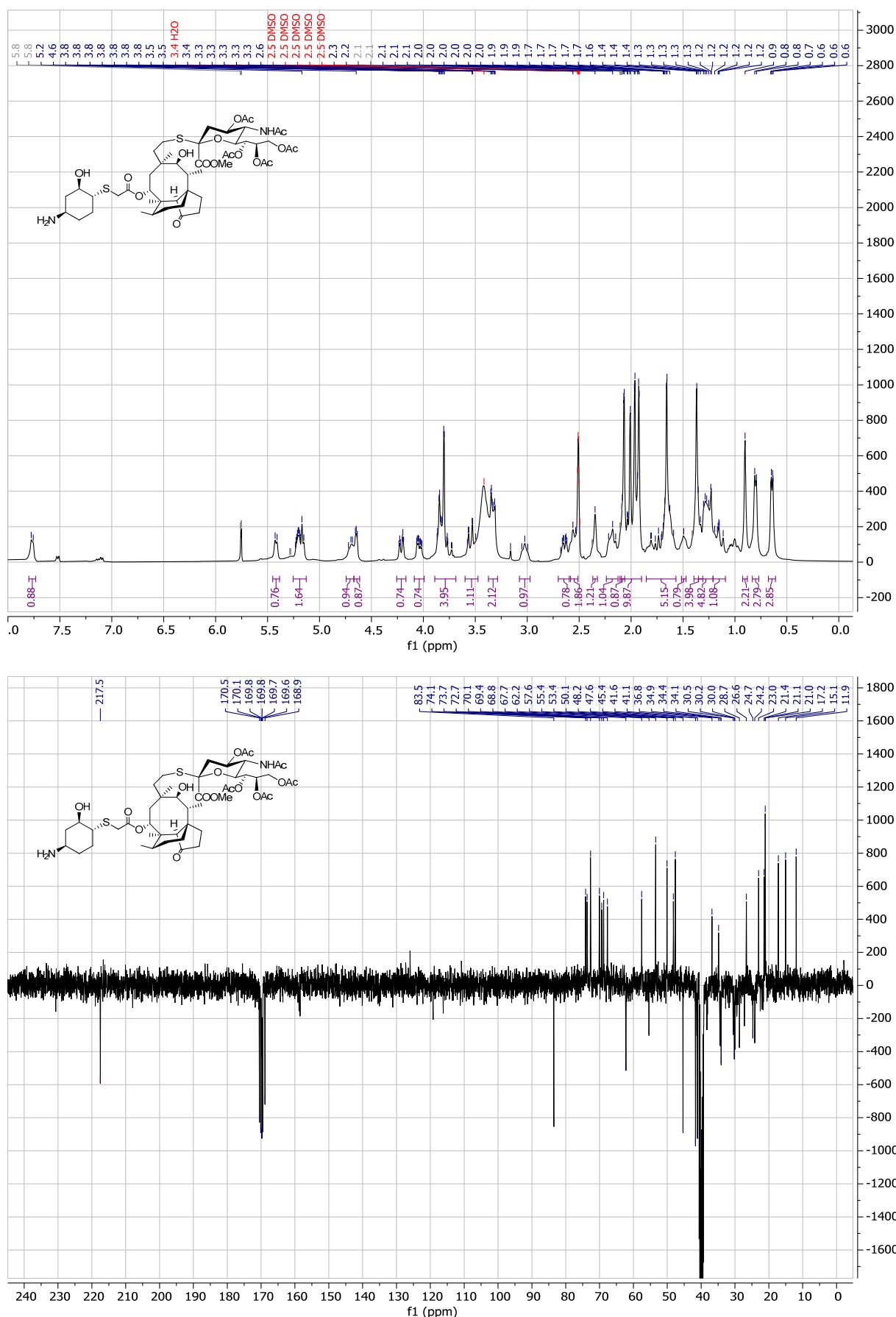


Figure S24. ¹H and ¹³C NMR spectrum (400 MHz, DMSO) of compound 14h.

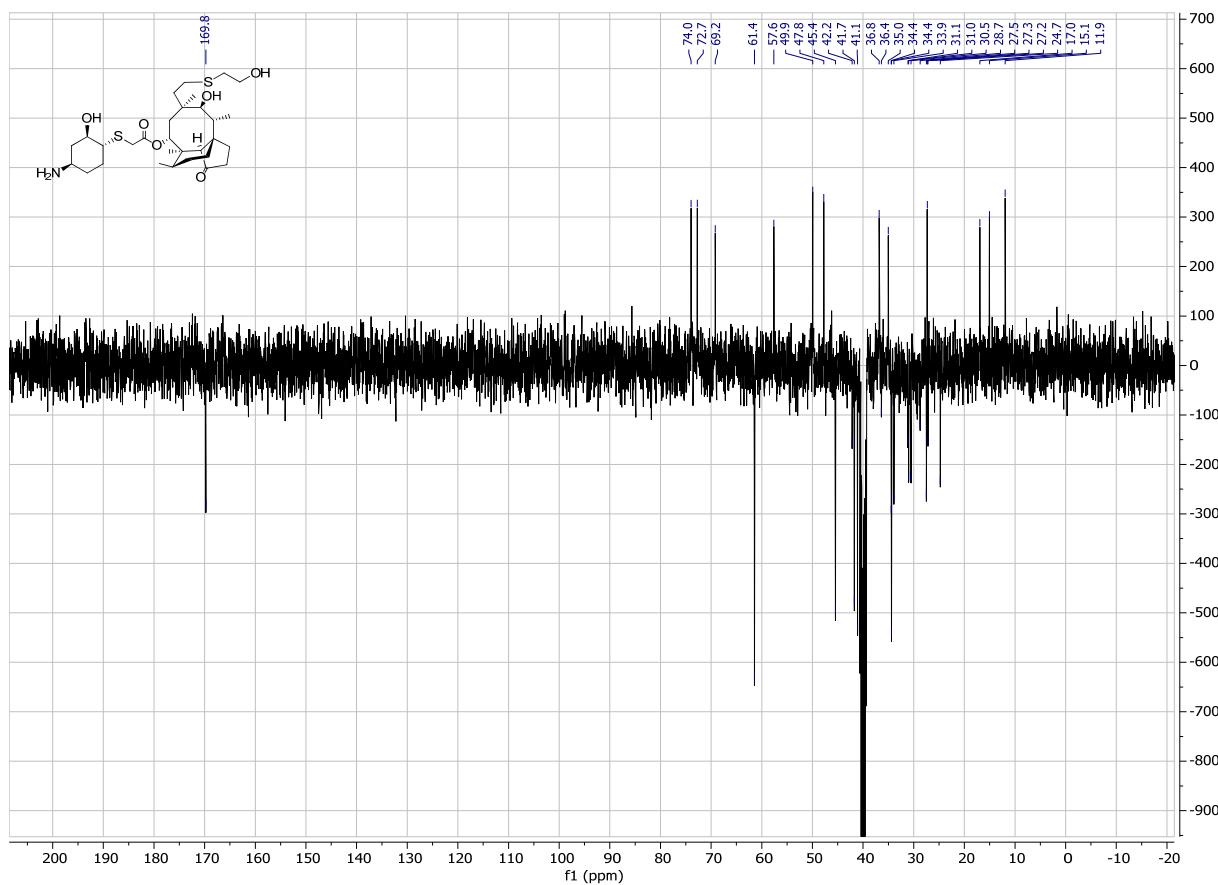
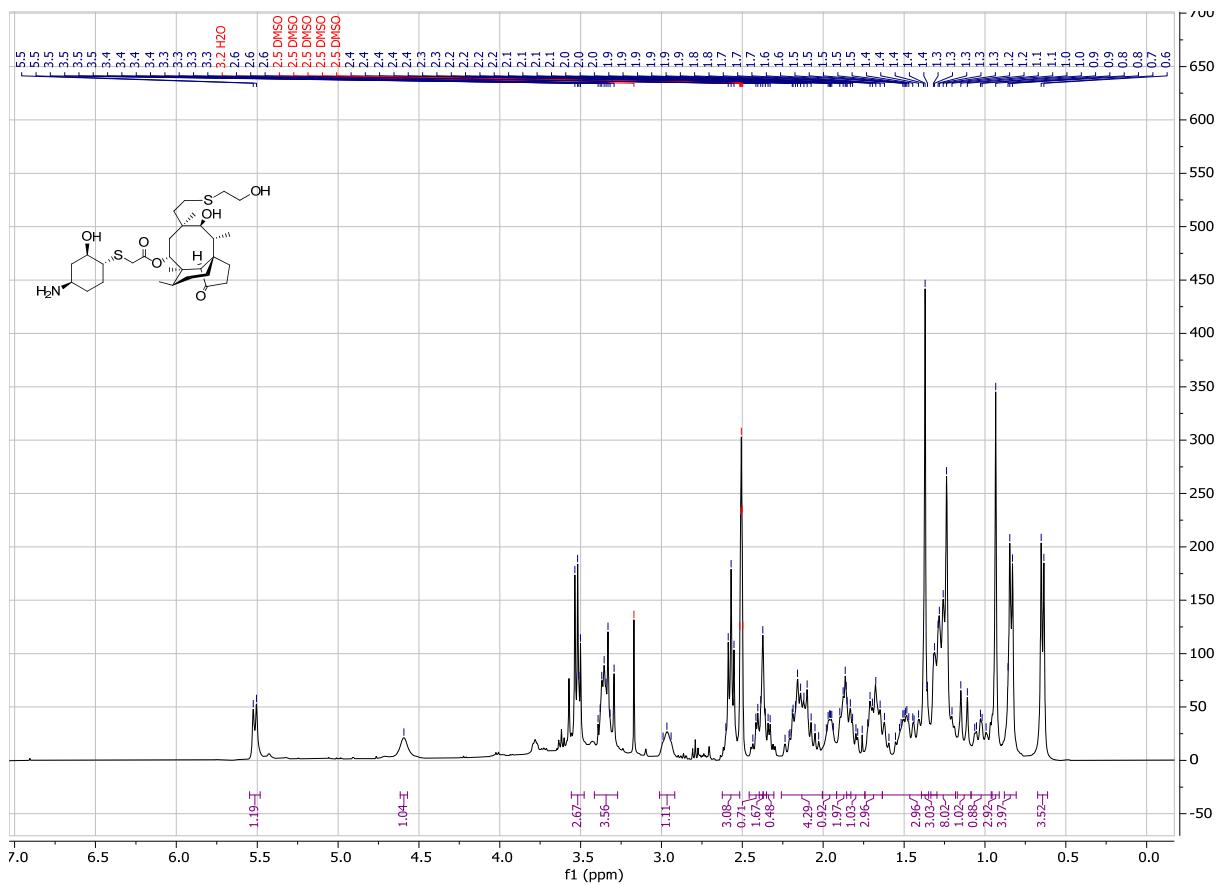


Figure S25. ^1H and ^{13}C NMR spectrum (400 MHz, DMSO) of compound **14j**.

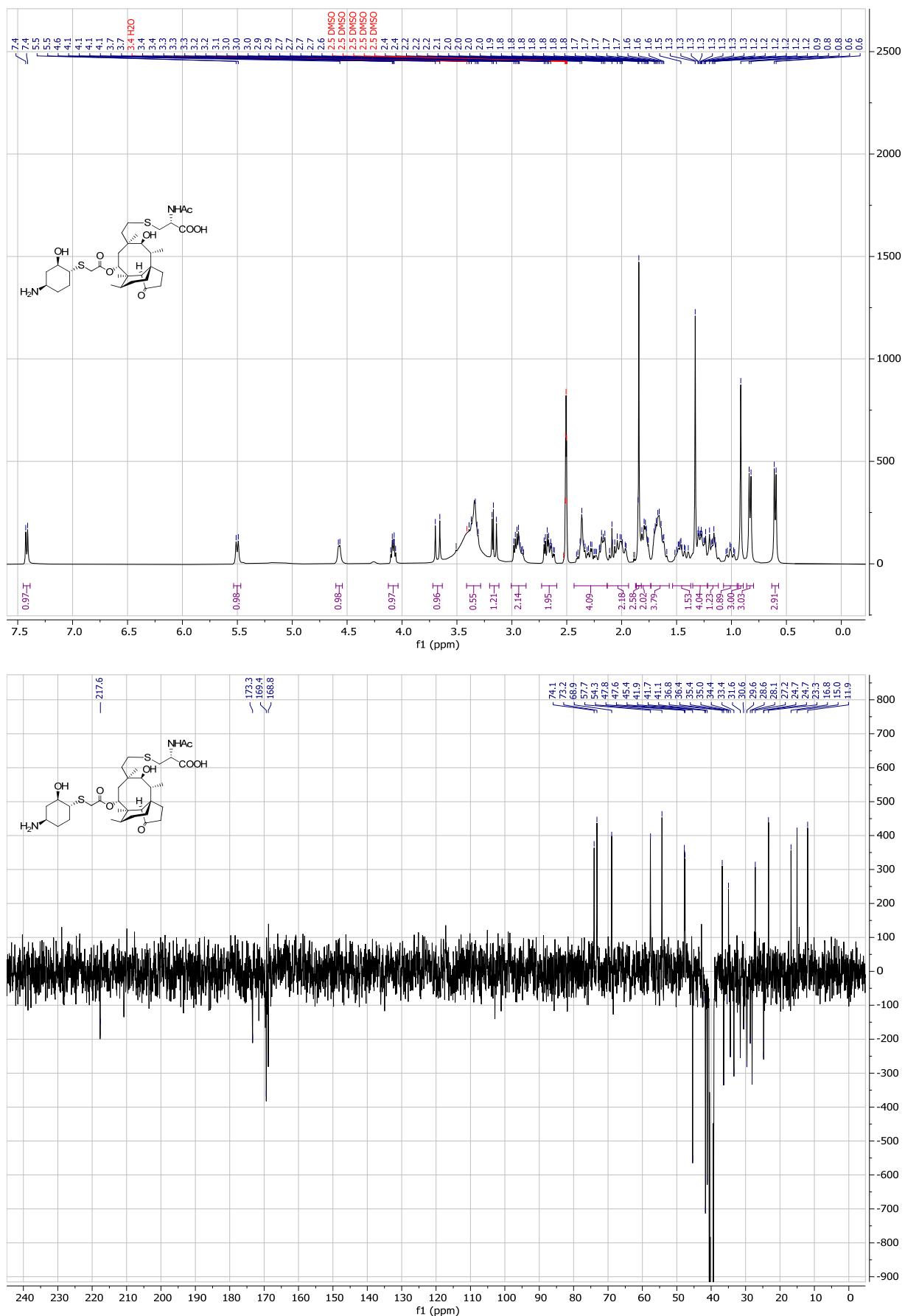


Figure S26. ^1H and ^{13}C NMR spectrum (400 MHz, DMSO) of compound **14k**.

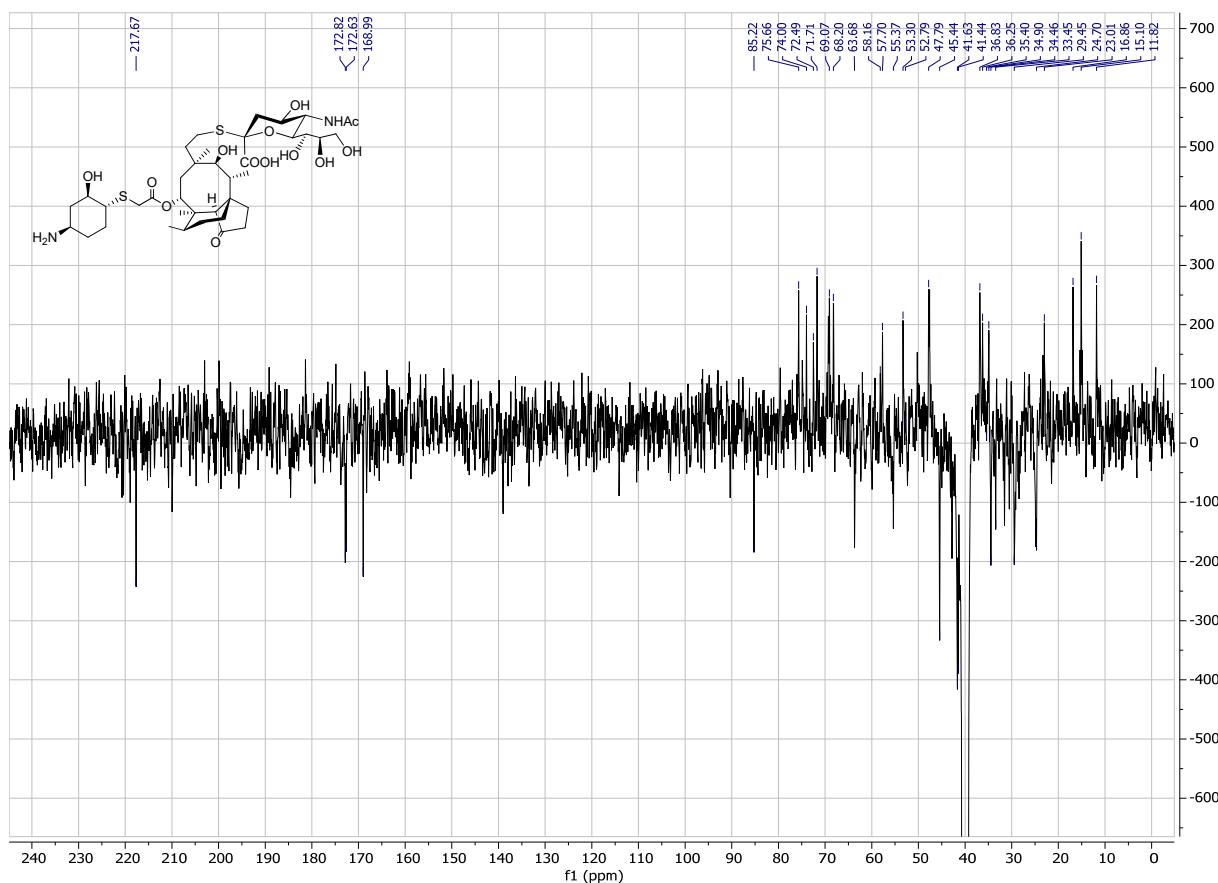
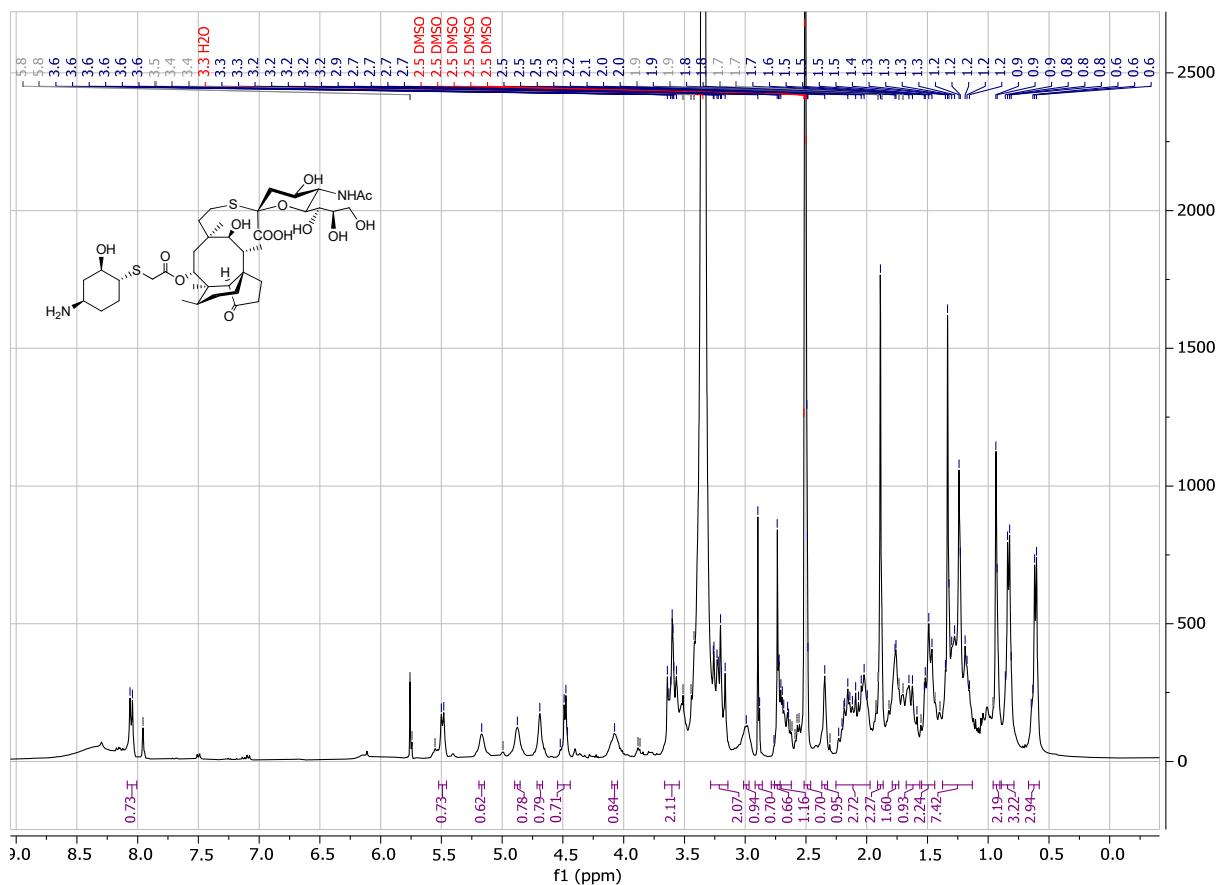


Figure S27. ^1H and ^{13}C NMR spectrum (400 MHz, DMSO) of compound **15h**.

For the low-temperature photoinitiated thiol-ene coupling reactions, the experimental set-up consists of the reaction vessel and the cooling medium (acetone–liquid nitrogen mixture) in a Dewar flask and a UV-lamp (Figure S1). Before irradiation, the entire set-up is covered by an aluminum foil tent to protect the laboratory personnel against UV light.

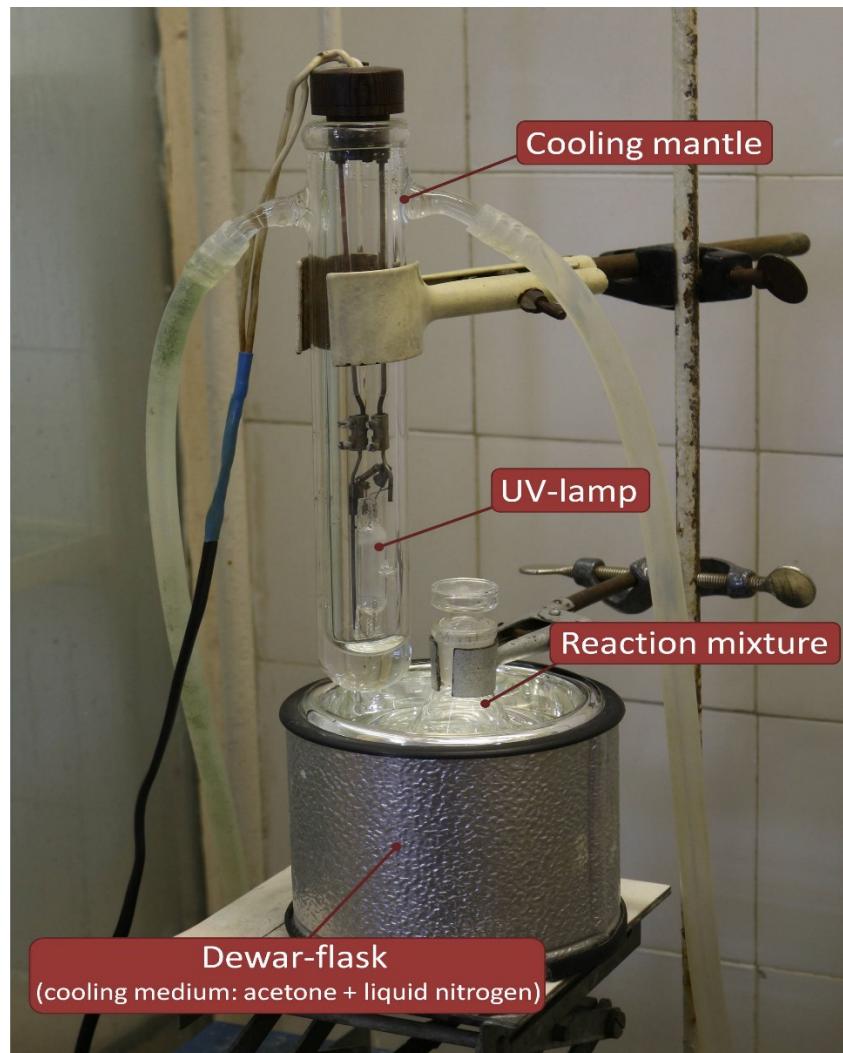


Figure S28. The experimental setup for carrying out hydrothiolation reactions at low temperature.

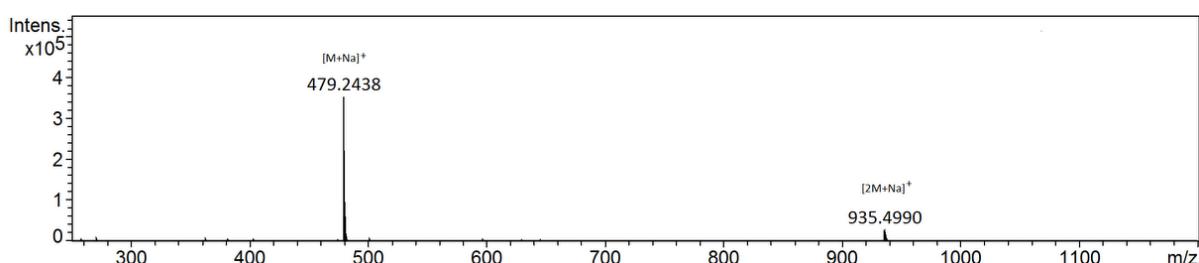


Figure S29. ESI-MS spectrum of compound 10j.

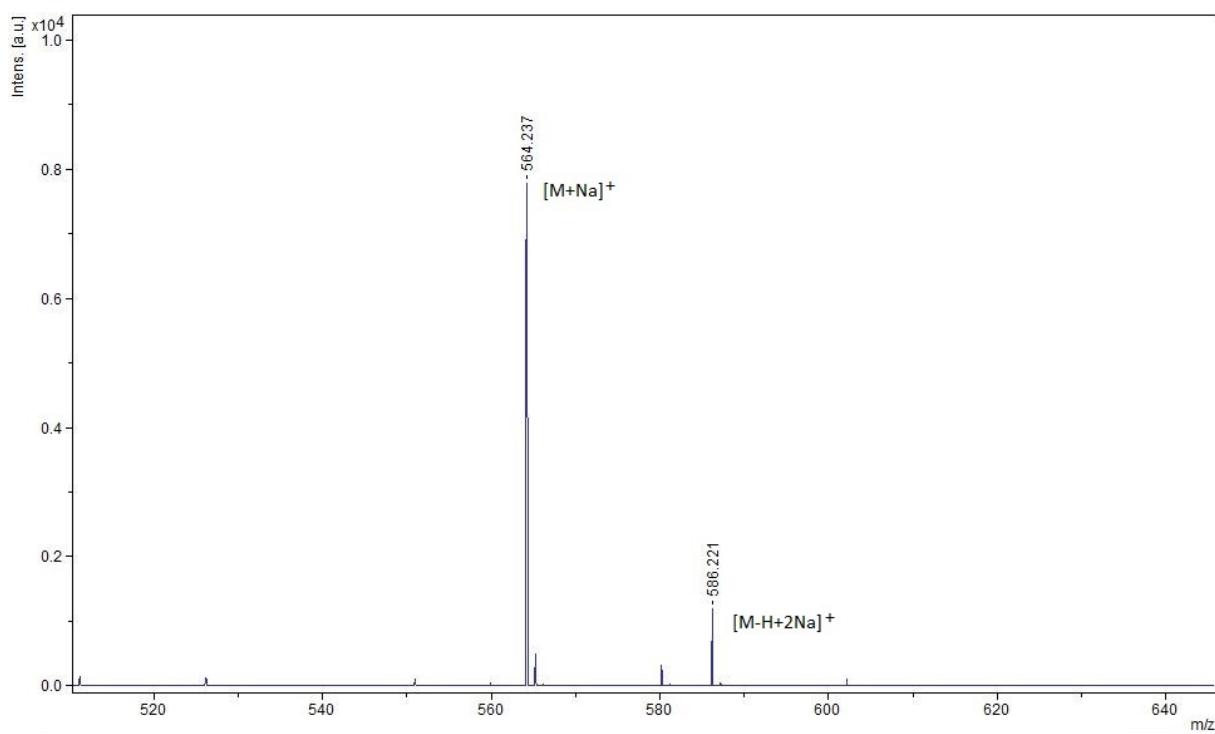


Figure S30. MALDI-MS spectrum of compound **10k**.

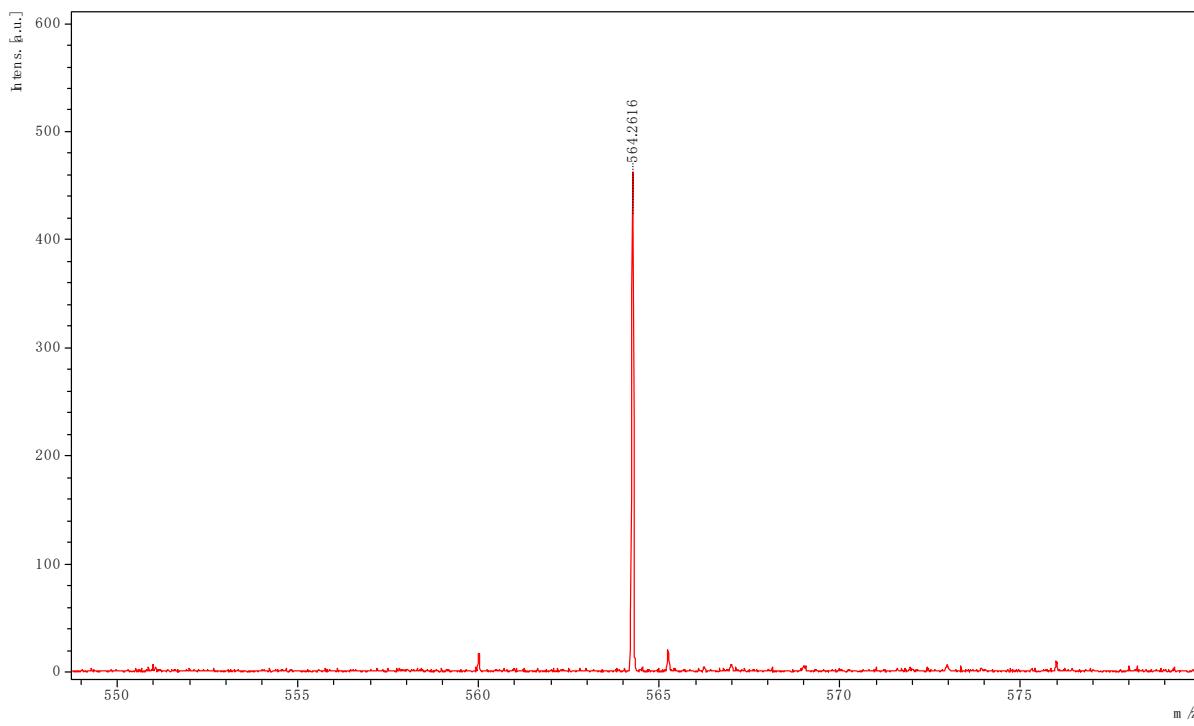


Figure S31. Calibrated MALDI-MS spectrum of compound **10k**.

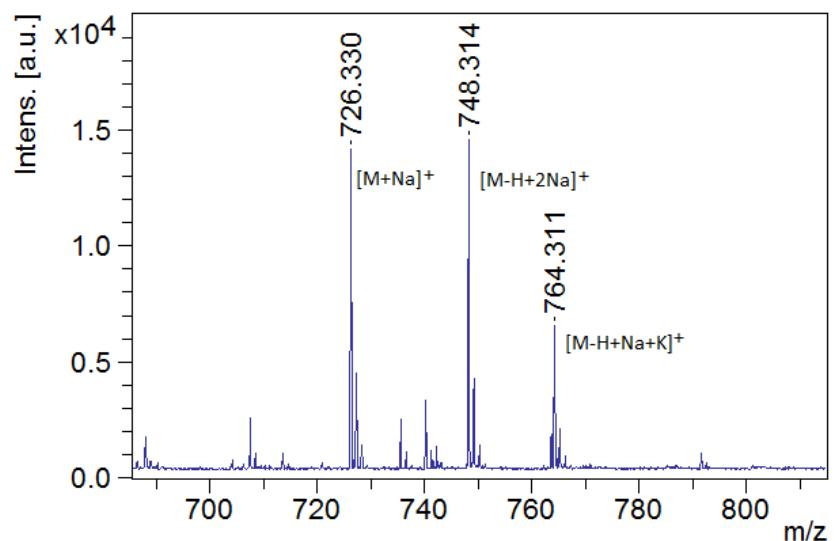


Figure S32. MALDI-MS spectrum of compound **11h**.

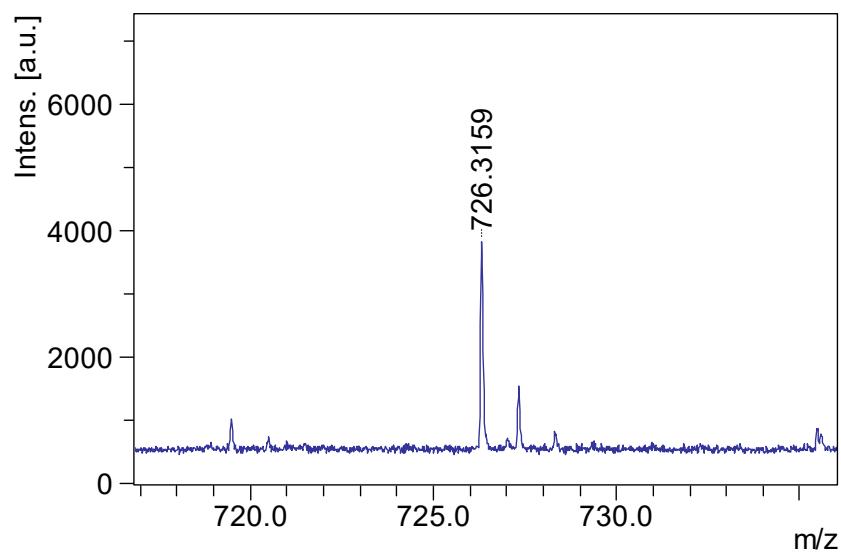


Figure S33. Calibrated MALDI-MS spectrum of compound **11h**.

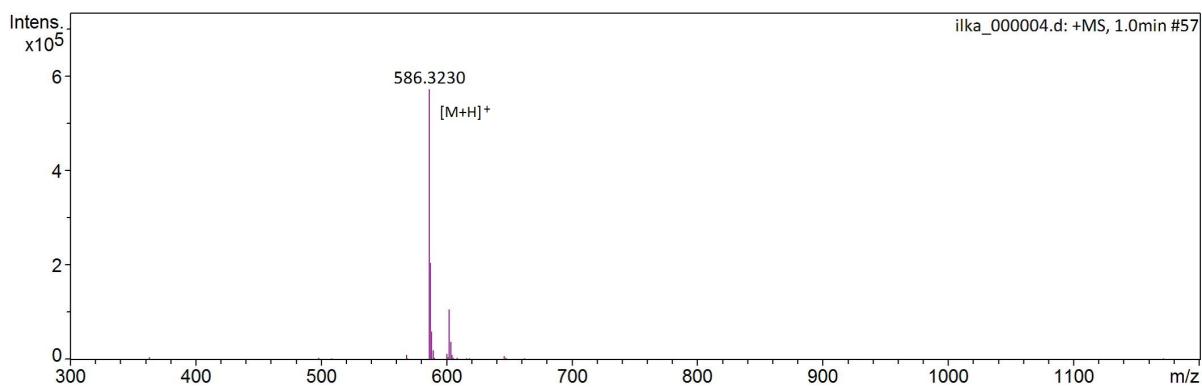


Figure S34. ESI-MS spectrum of compound **14j**.

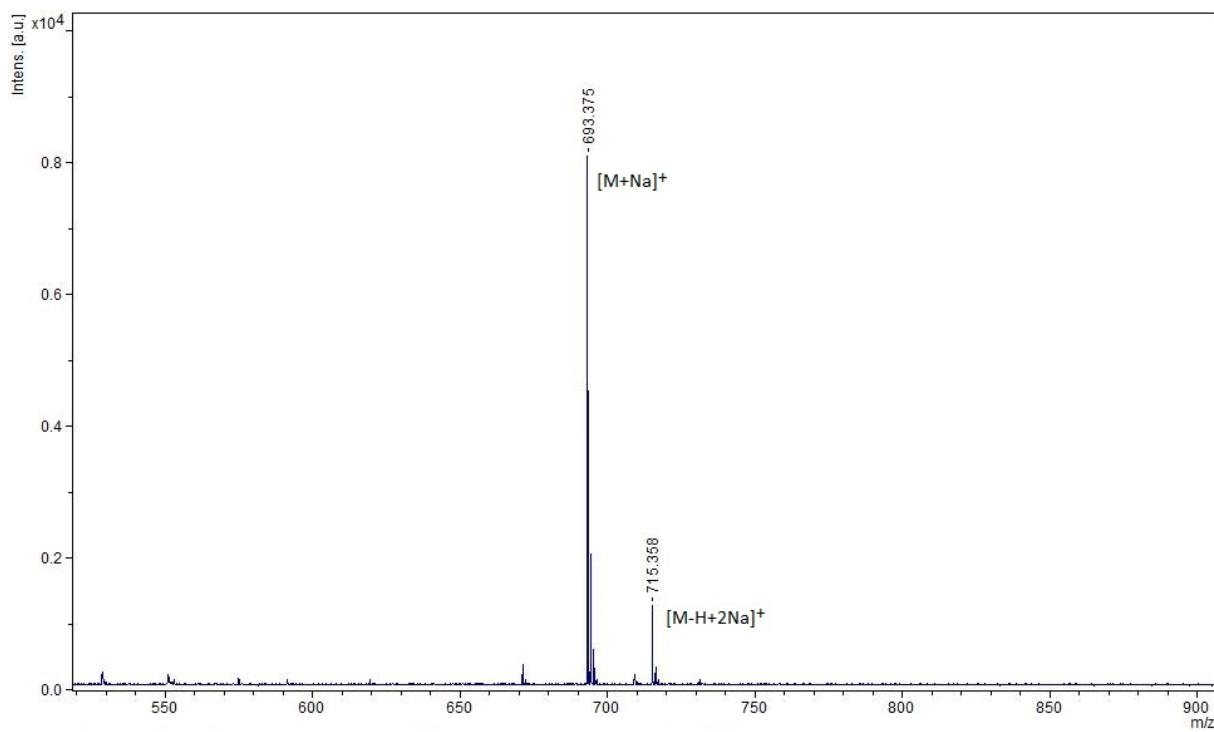


Figure S35. MALDI-MS spectrum of compound **14k**.

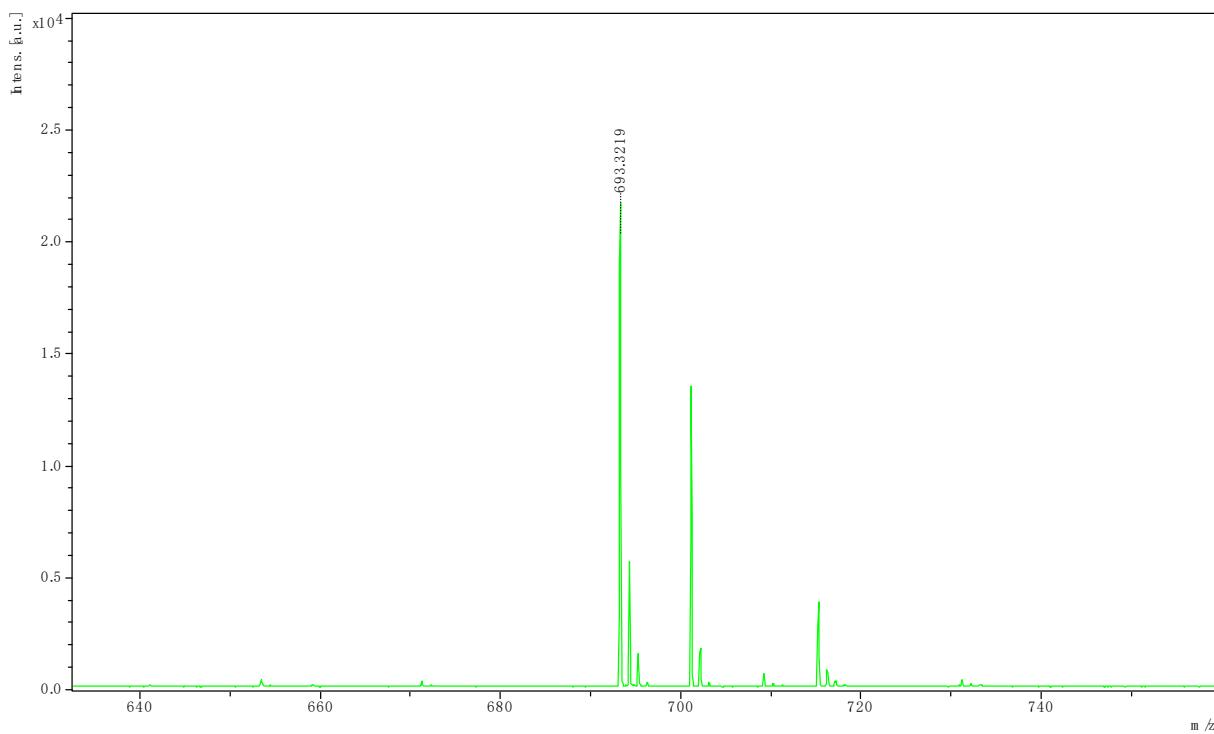


Figure S36. Calibrated MALDI-MS spectrum of compound **14k**.

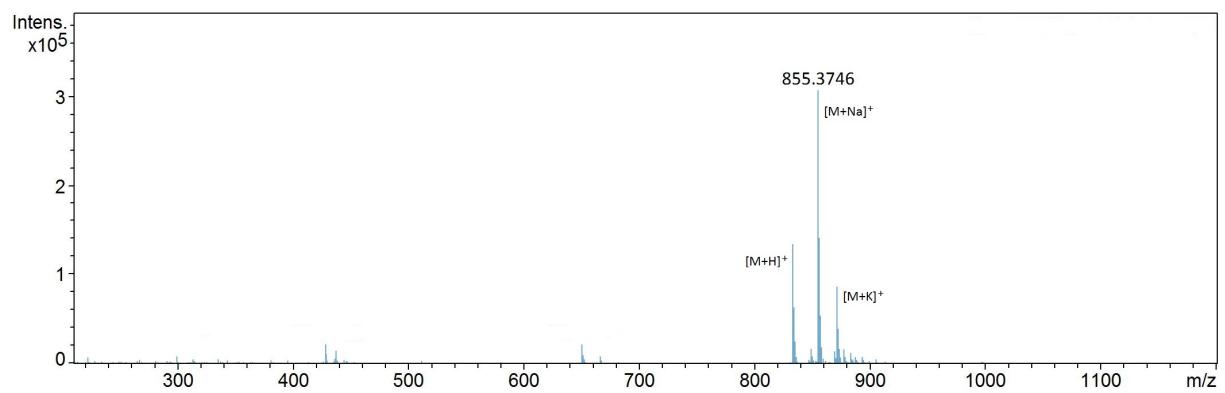


Figure S37. ESI-MS spectrum of compound **15h**.