

Phytochemical studies on the seeds, pseudofruits, and roots of *Rosa pimpinellifolia*

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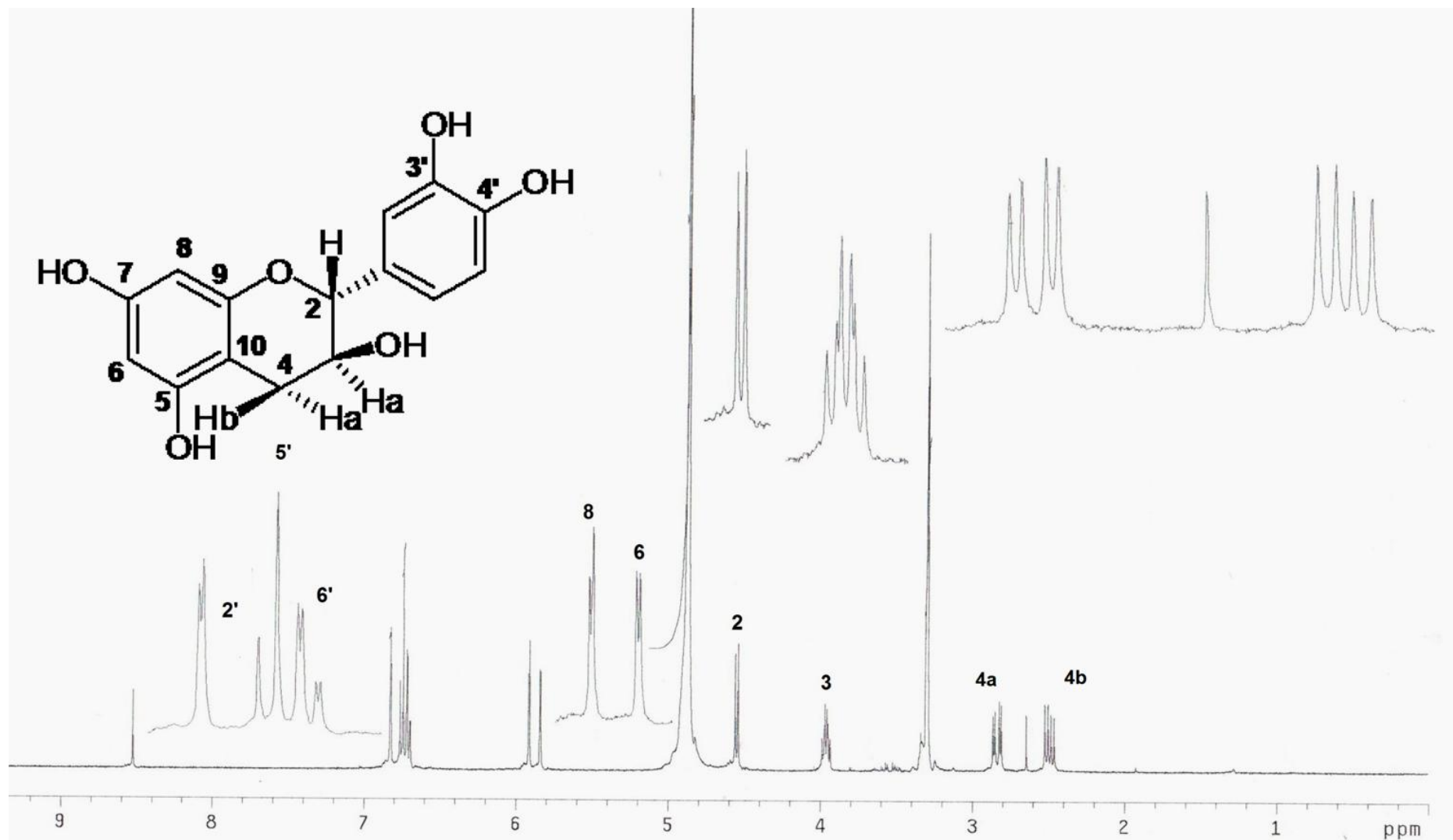


Figure S1. ¹H-NMR (CD₃OD, 400 MHz) spectrum of Compound 1

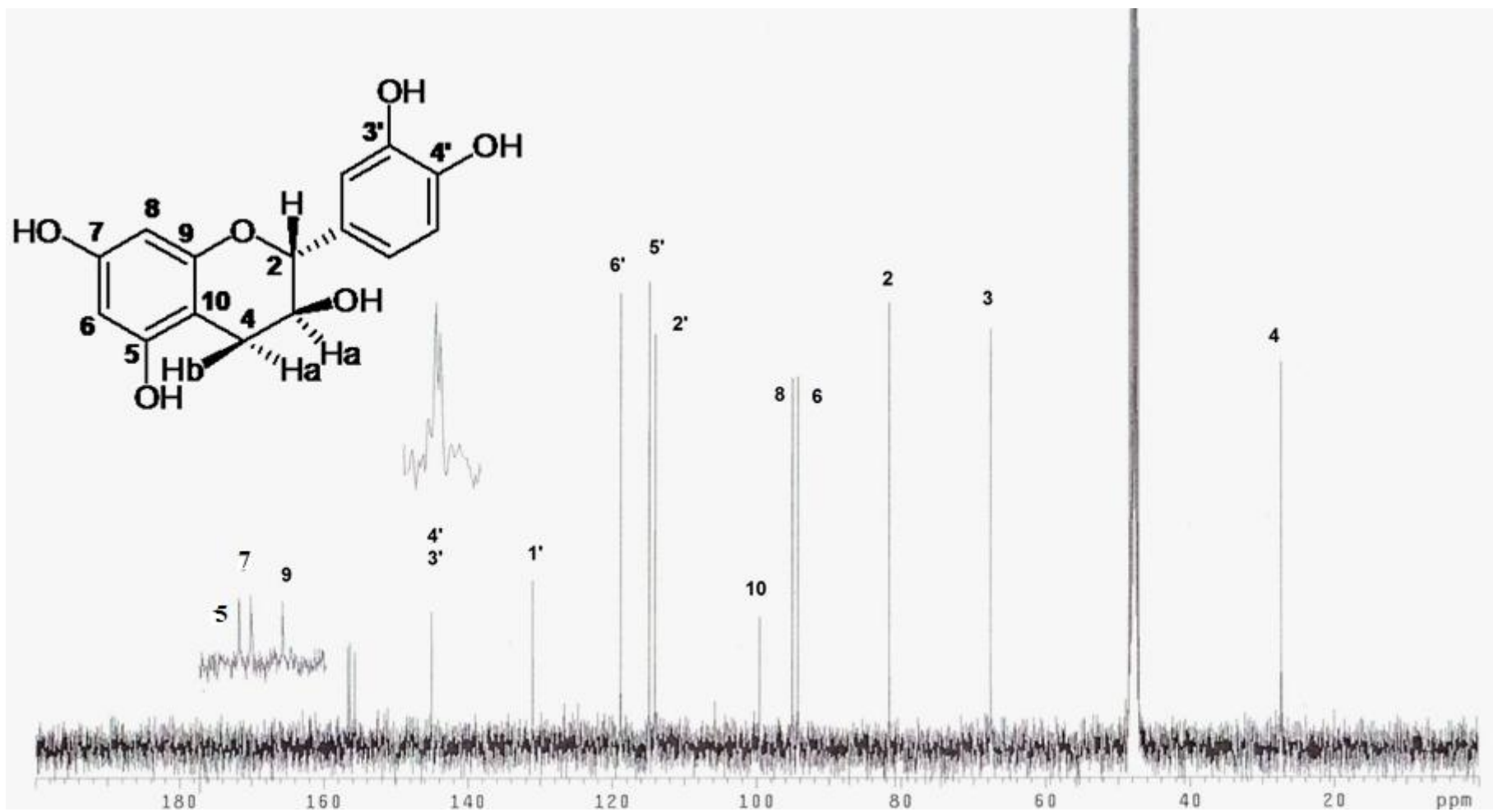


Figure S2. ^{13}C -NMR (CD_3OD , 100 MHz) spectrum of Compound 1

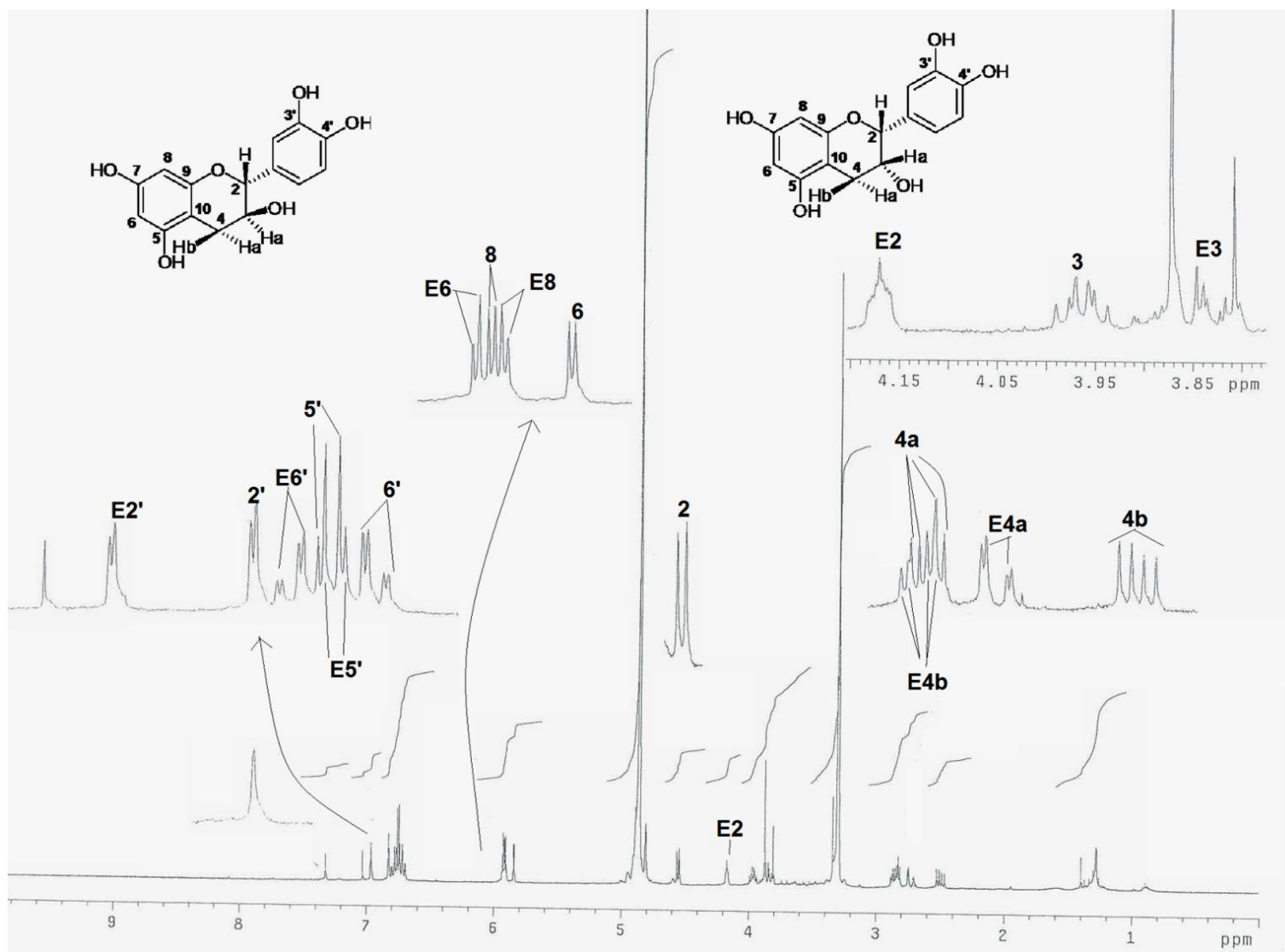


Figure S3. ^1H -NMR (CD_3OD , 100 MHz) spectrum of Compound 2

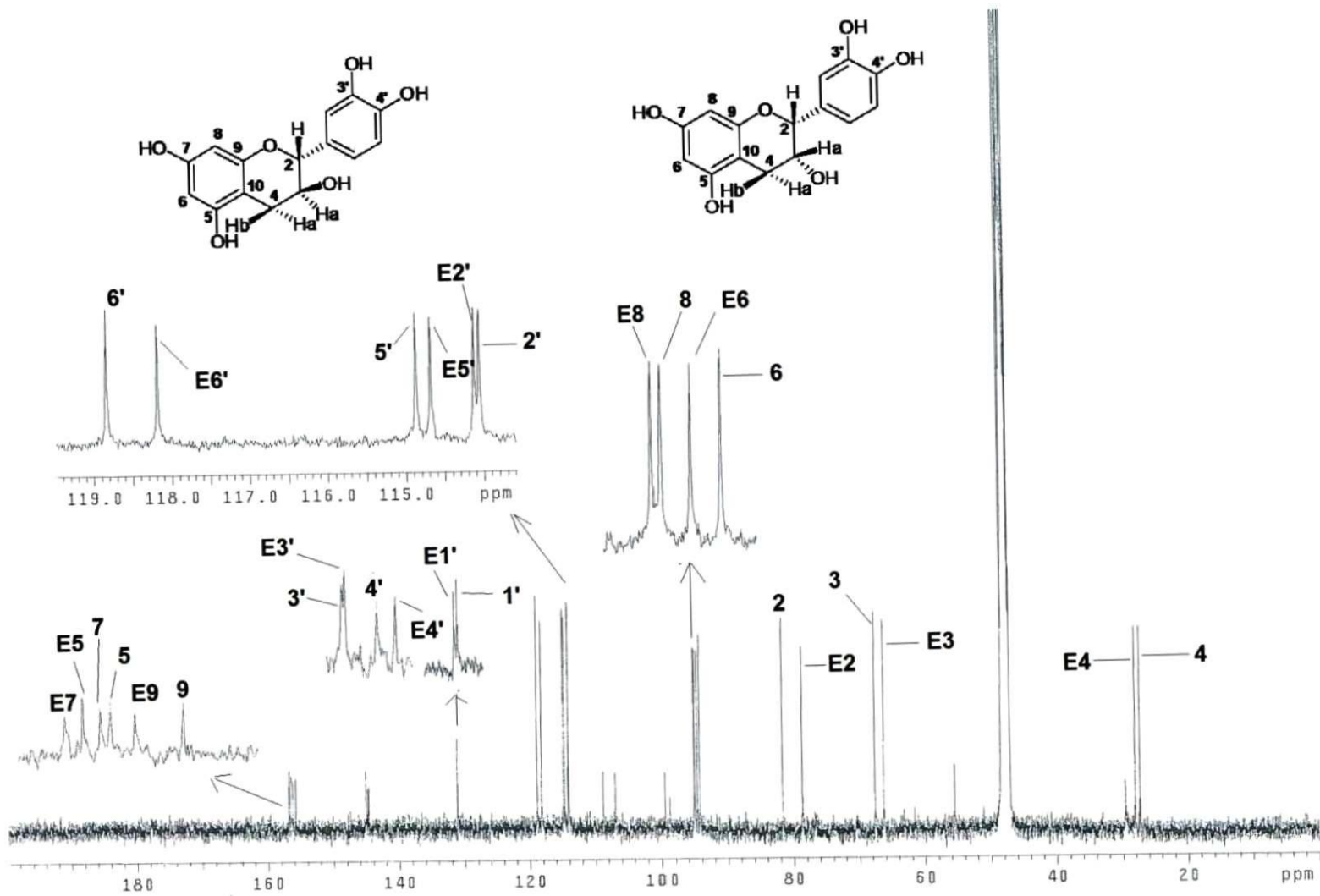


Figure S4. ^{13}C -NMR (CD_3OD , 100 MHz) spectrum of Compound 2

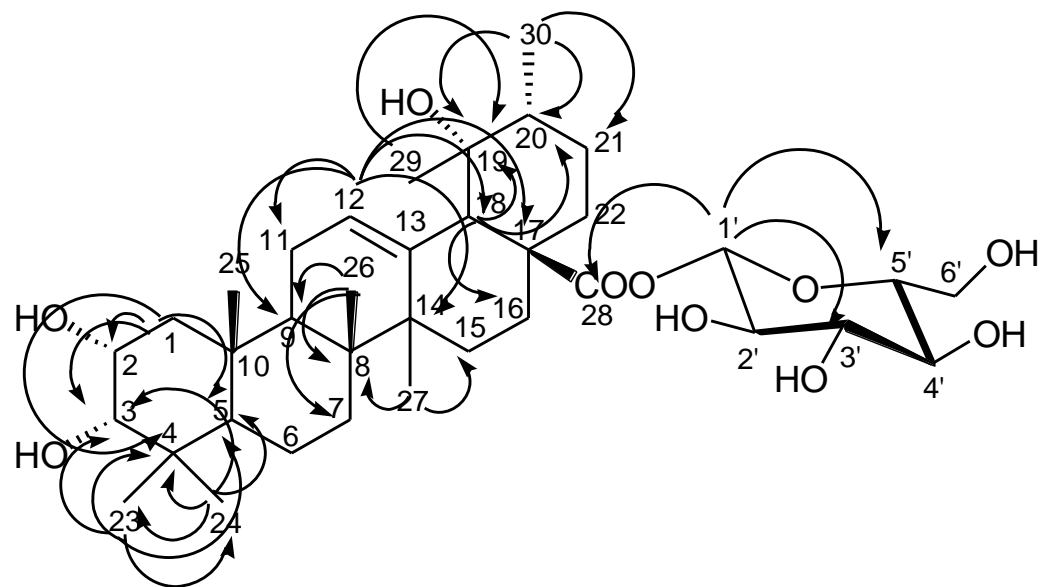


Figure S5. HMBC (\rightarrow) correlation of Compound 3

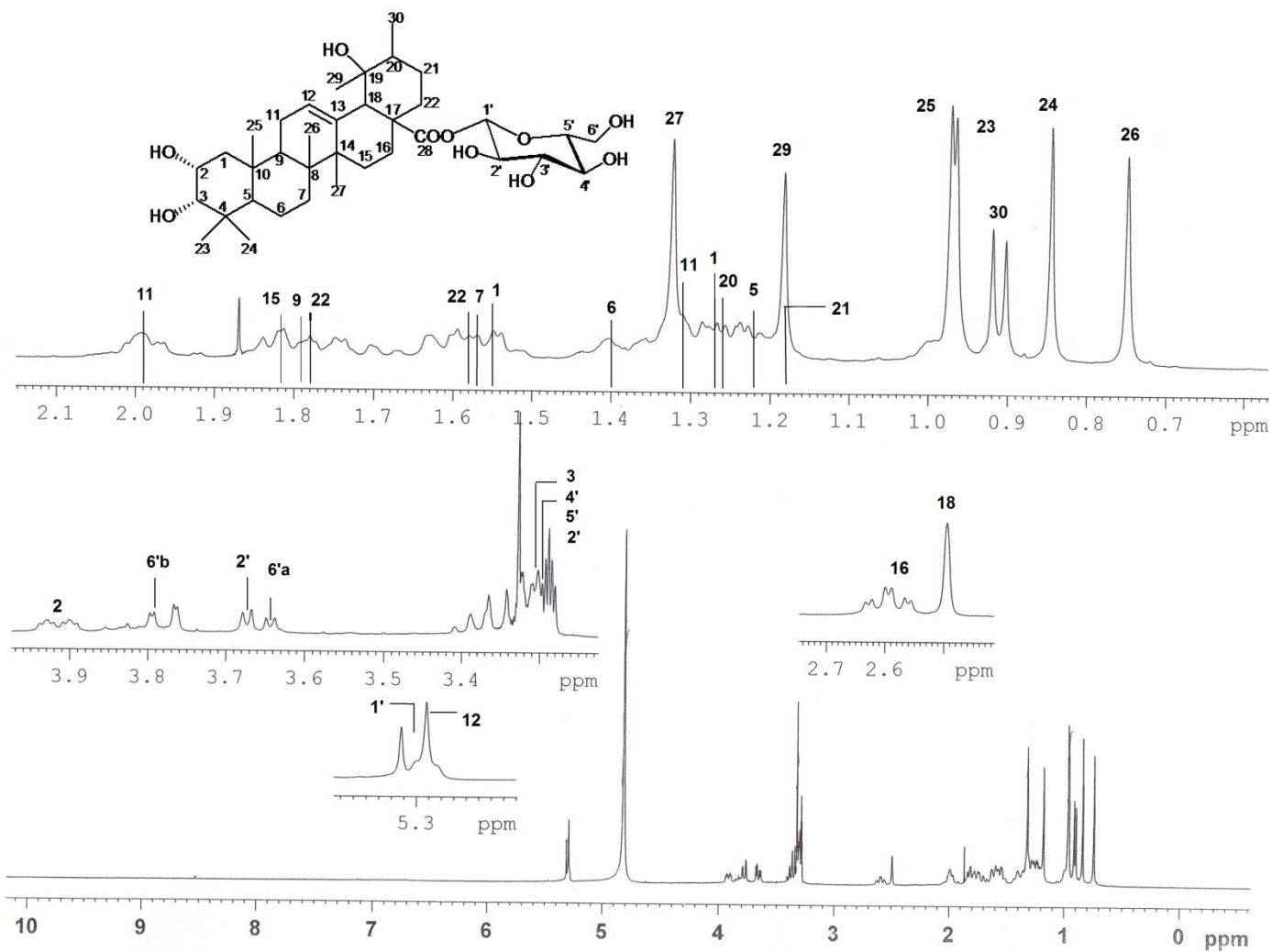


Figure S6. ¹H-NMR (CD₃OD, 400 MHz) spectrum of Compound 3

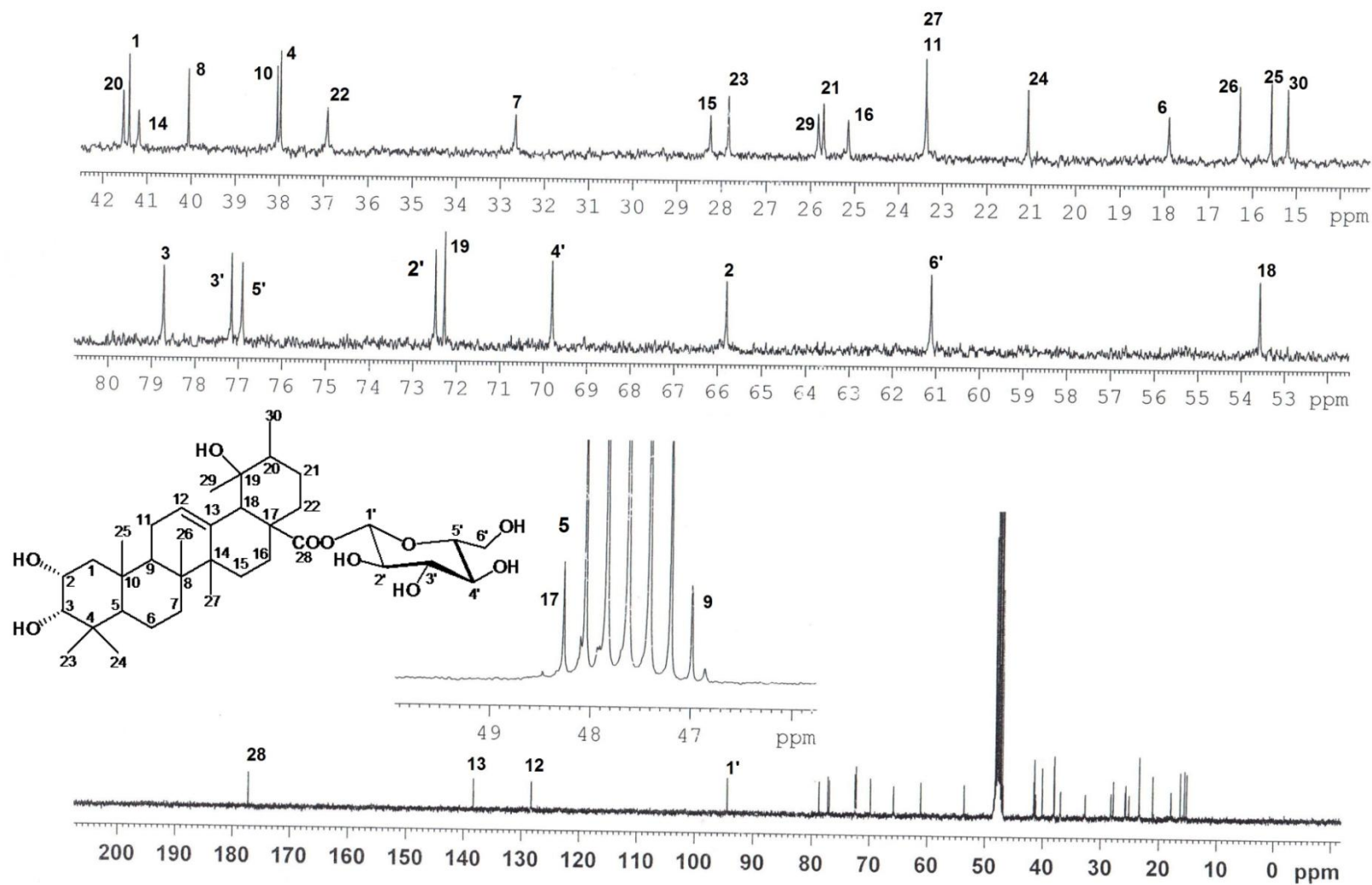


Figure S7. ^{13}C -NMR (CD_3OD , 100 MHz) spectrum of Compound 3

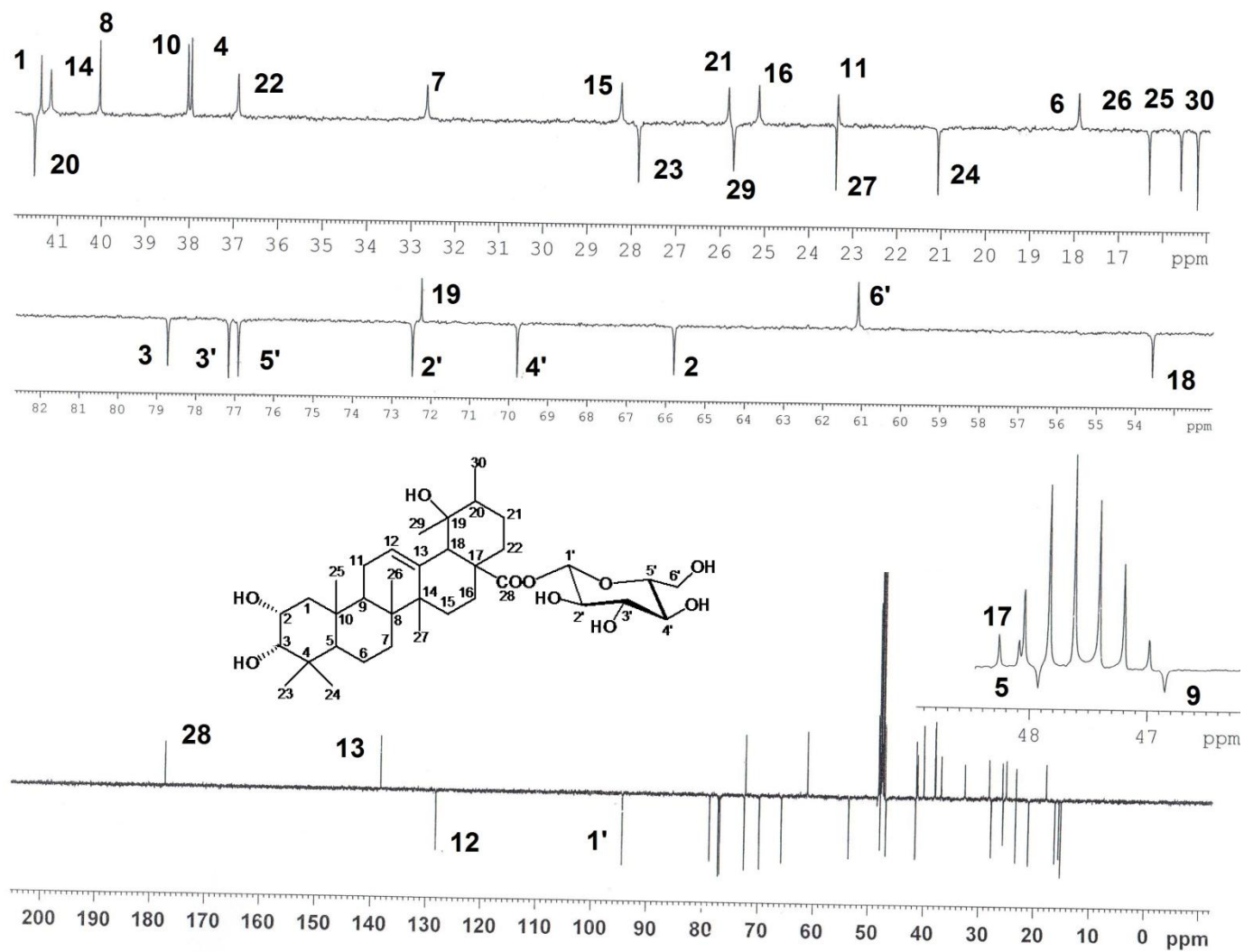


Figure S8. APT (CD₃OD, 100 MHz) spectrum of Compound 3

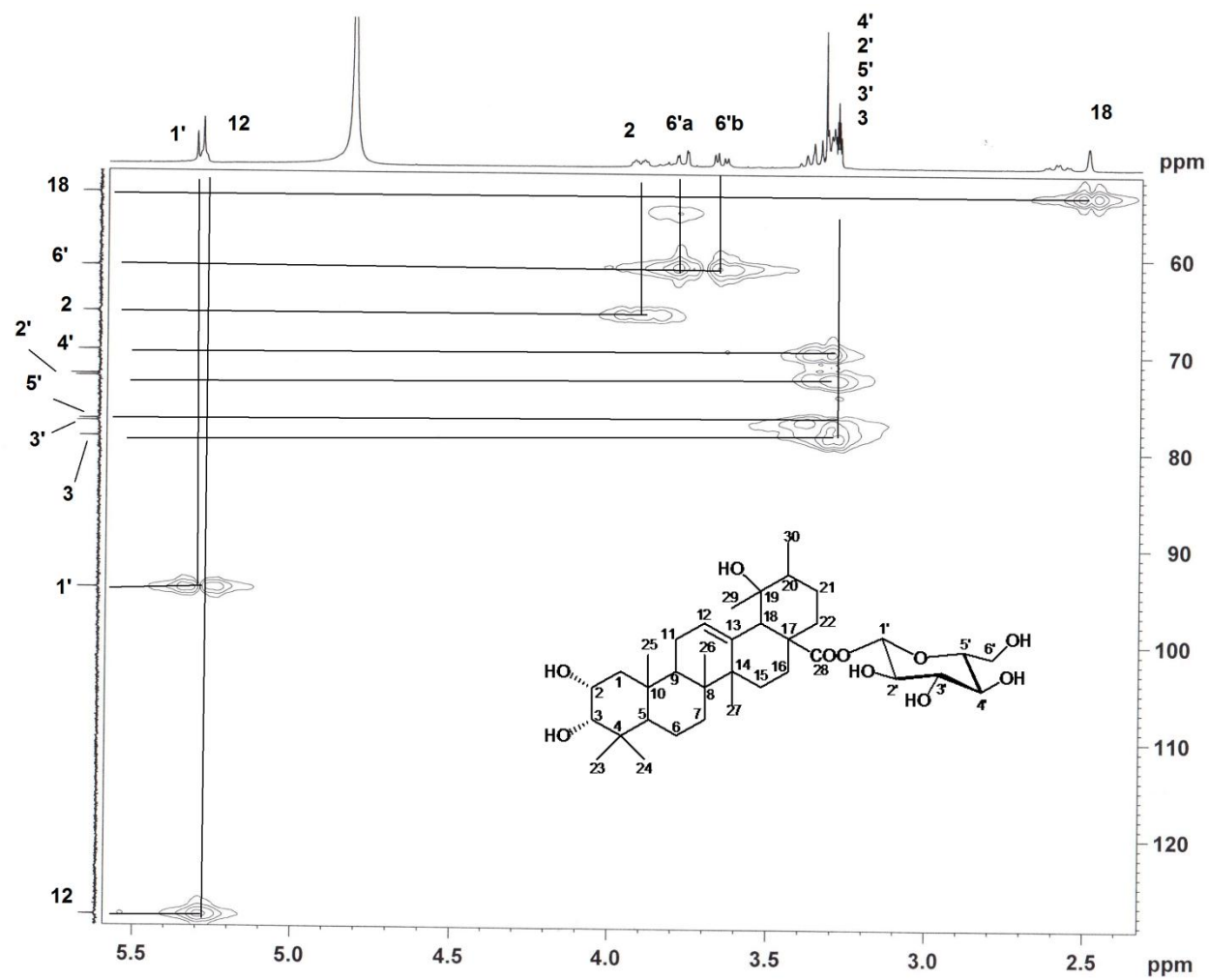


Figure S9. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMQC) spectrum of Compound 3

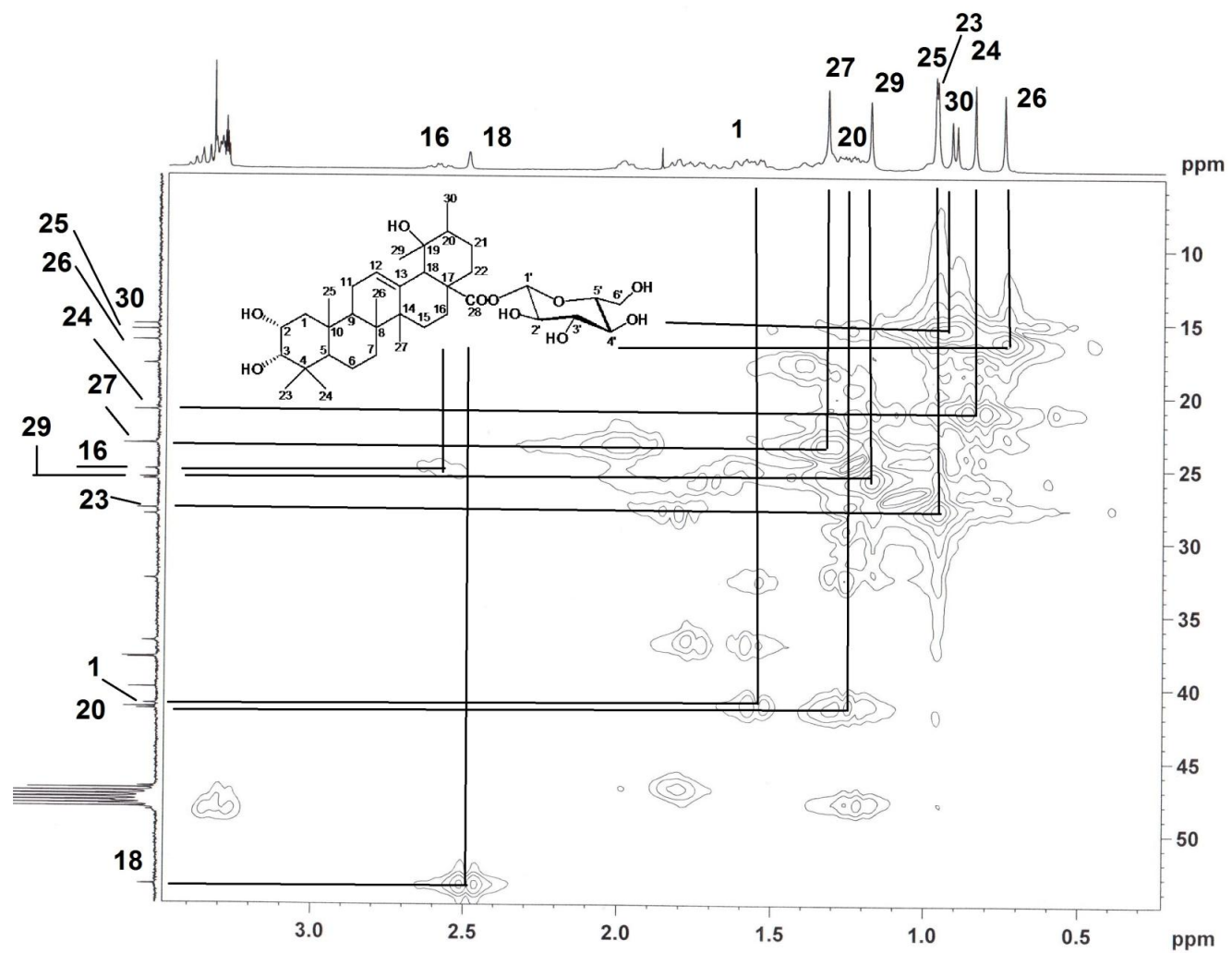


Figure S10. 2D-¹H-¹³C- Heteronuclear COSY (HMQC) spectrum of Compound 3

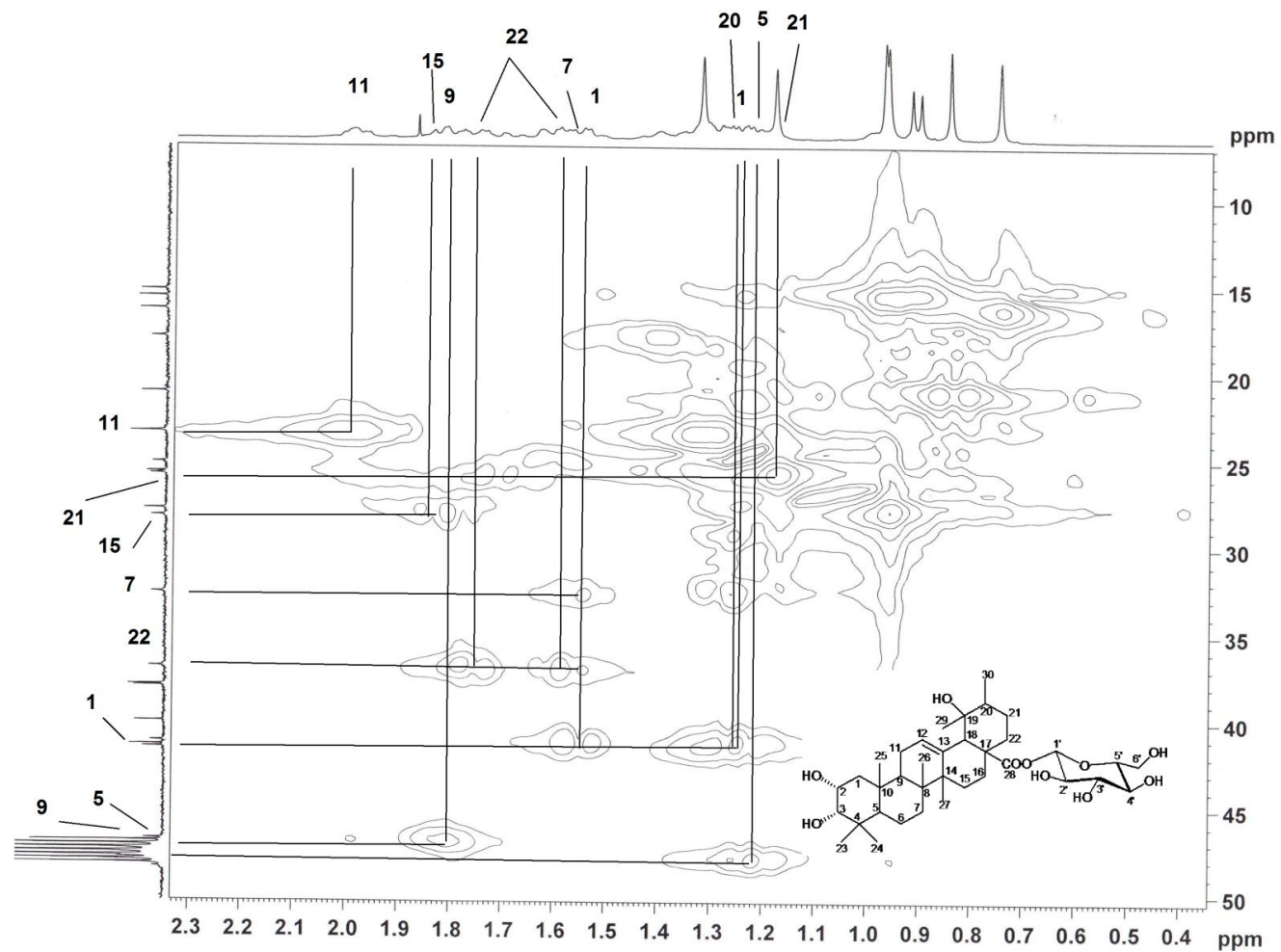


Figure S11. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMQC) spectrum of Compound 3

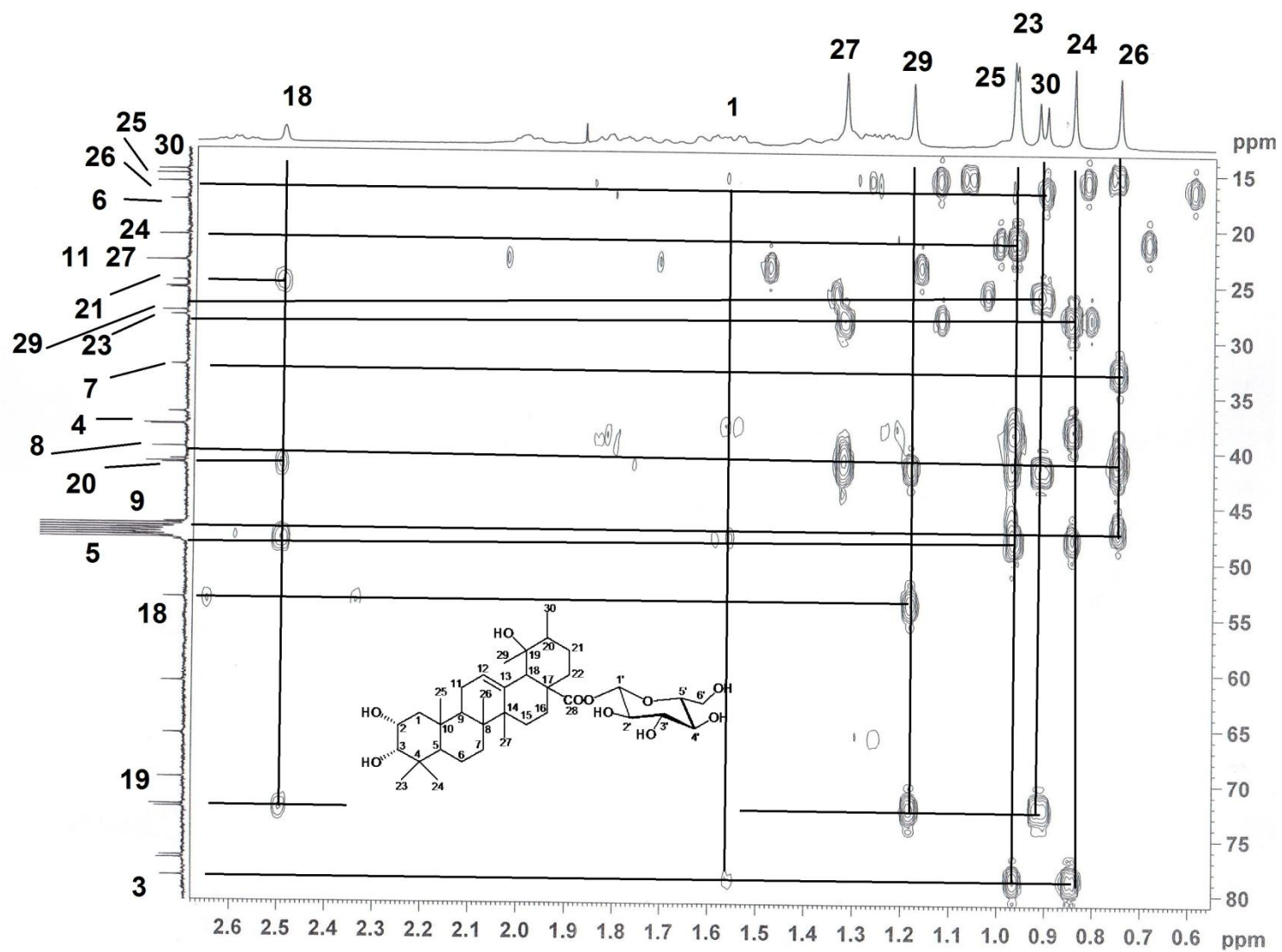


Figure S12. 2D-¹H-¹³C- Heteronuclear COSY (HMBC) spectrum of Compound 3

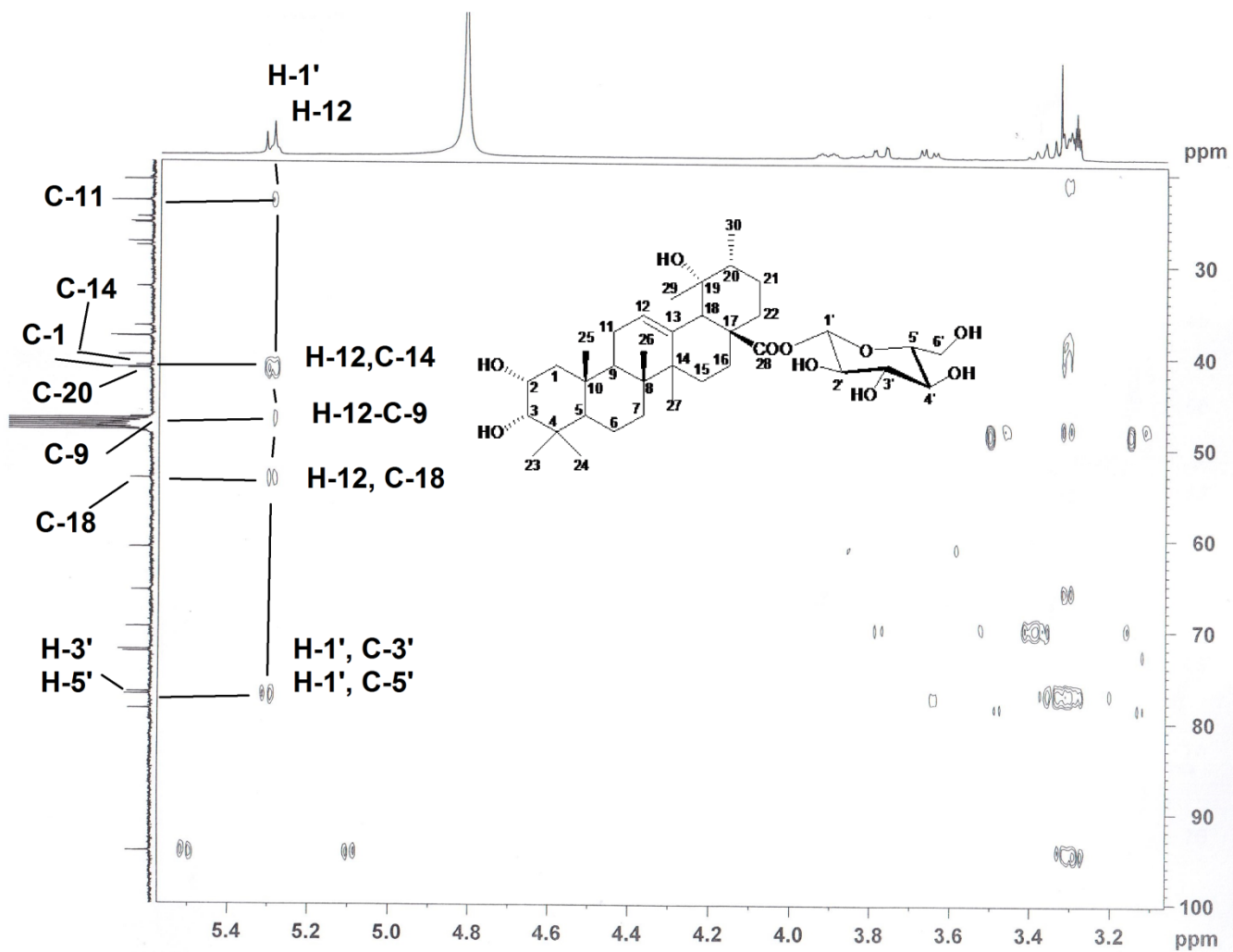


Figure S13. 2D-¹H-¹³C- Heteronuclear COSY (HMBC) spectrum of Compound 3

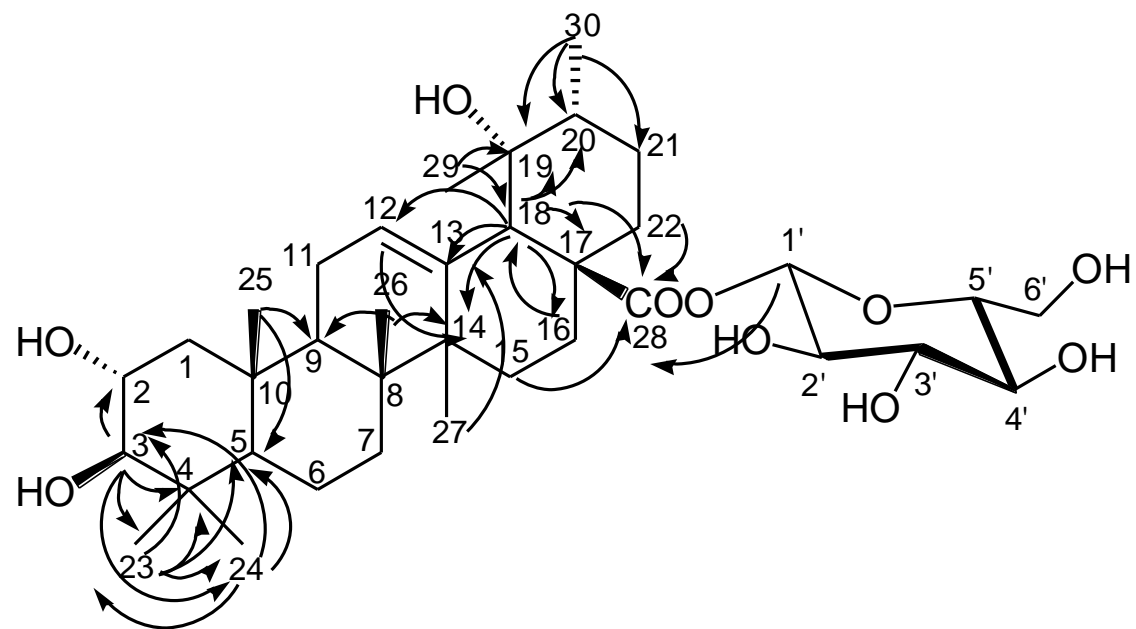


Figure S14. HMBC (\rightarrow) correlation of Compound 4

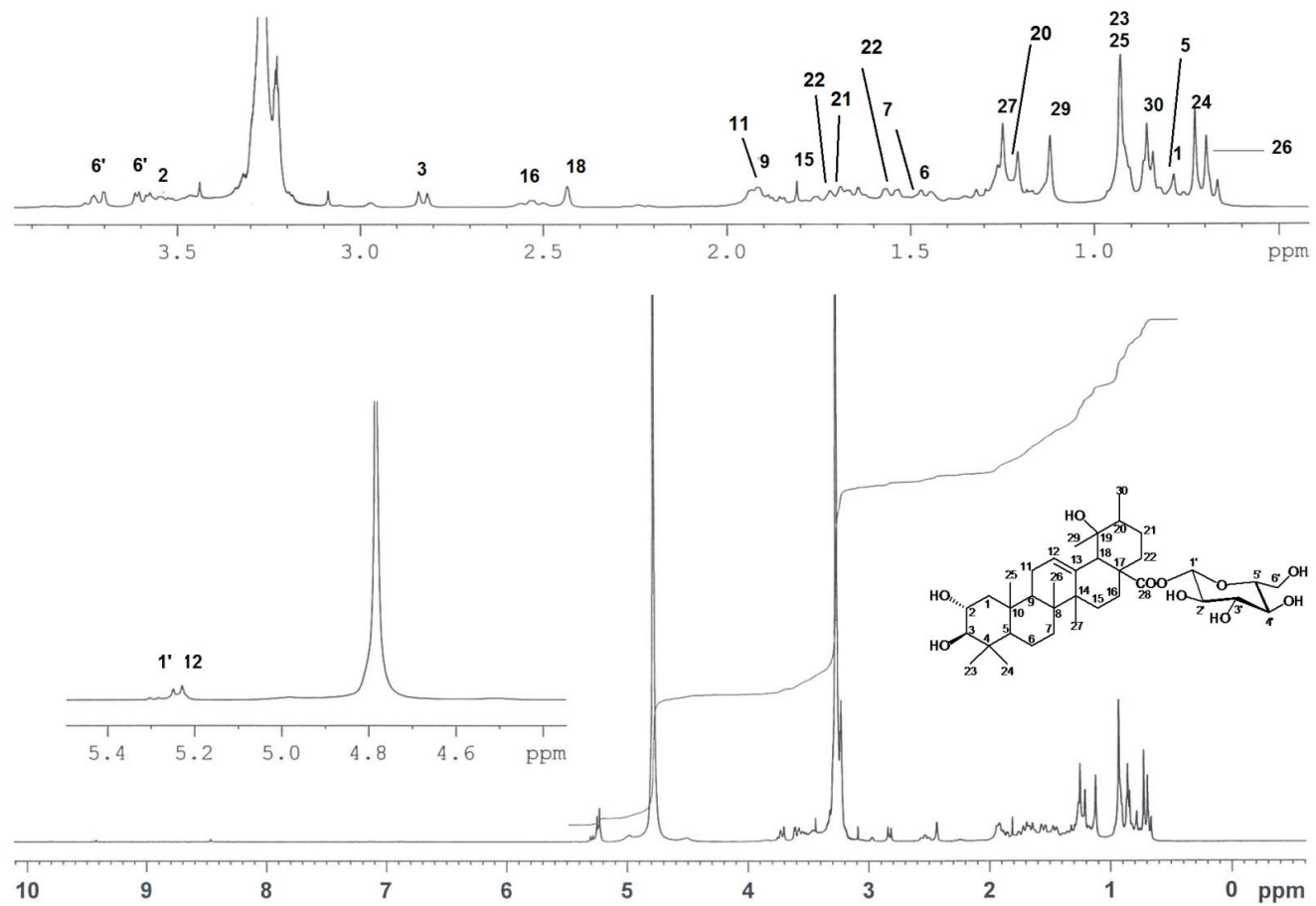


Figure S15. $^1\text{H-NMR}$ (CD_3OD , 400 MHz) spectrum of Compound 4

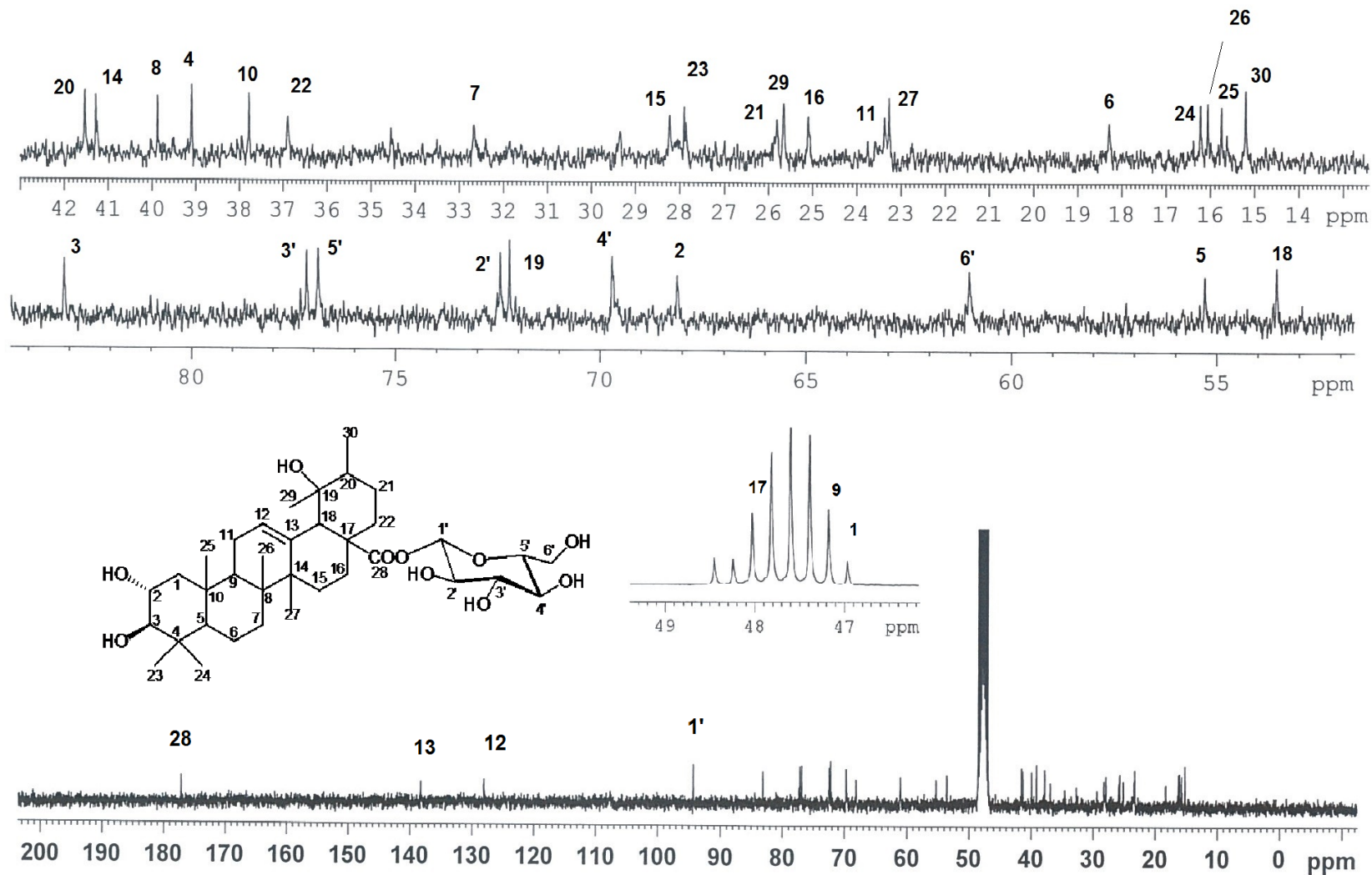


Figure S16. ^{13}C -NMR (CD_3OD , 100 MHz) spectrum of Compound 4

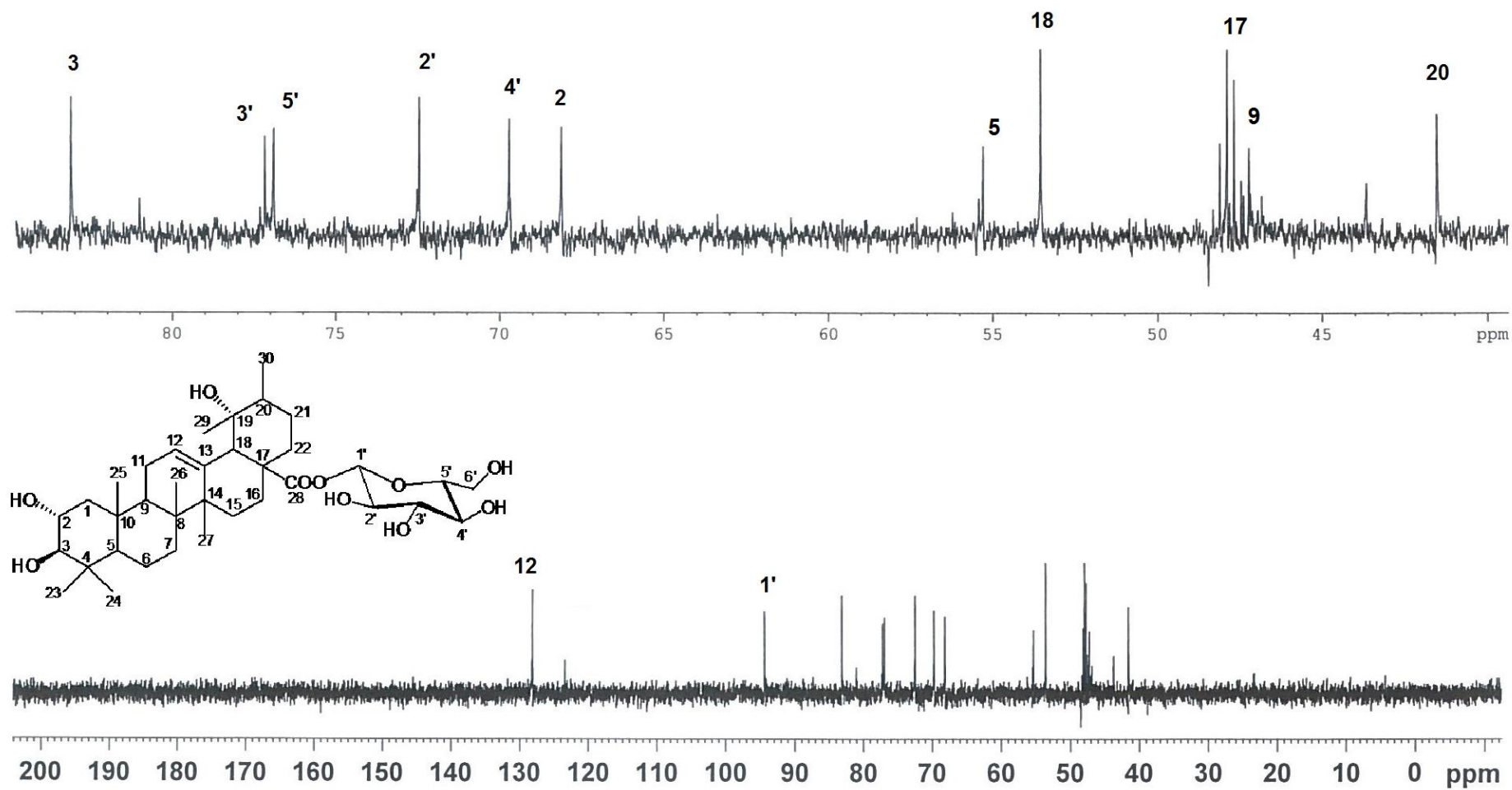


Figure S17. DEPT 90 (CD₃OD, 100 MHz) spectrum of Compound 4

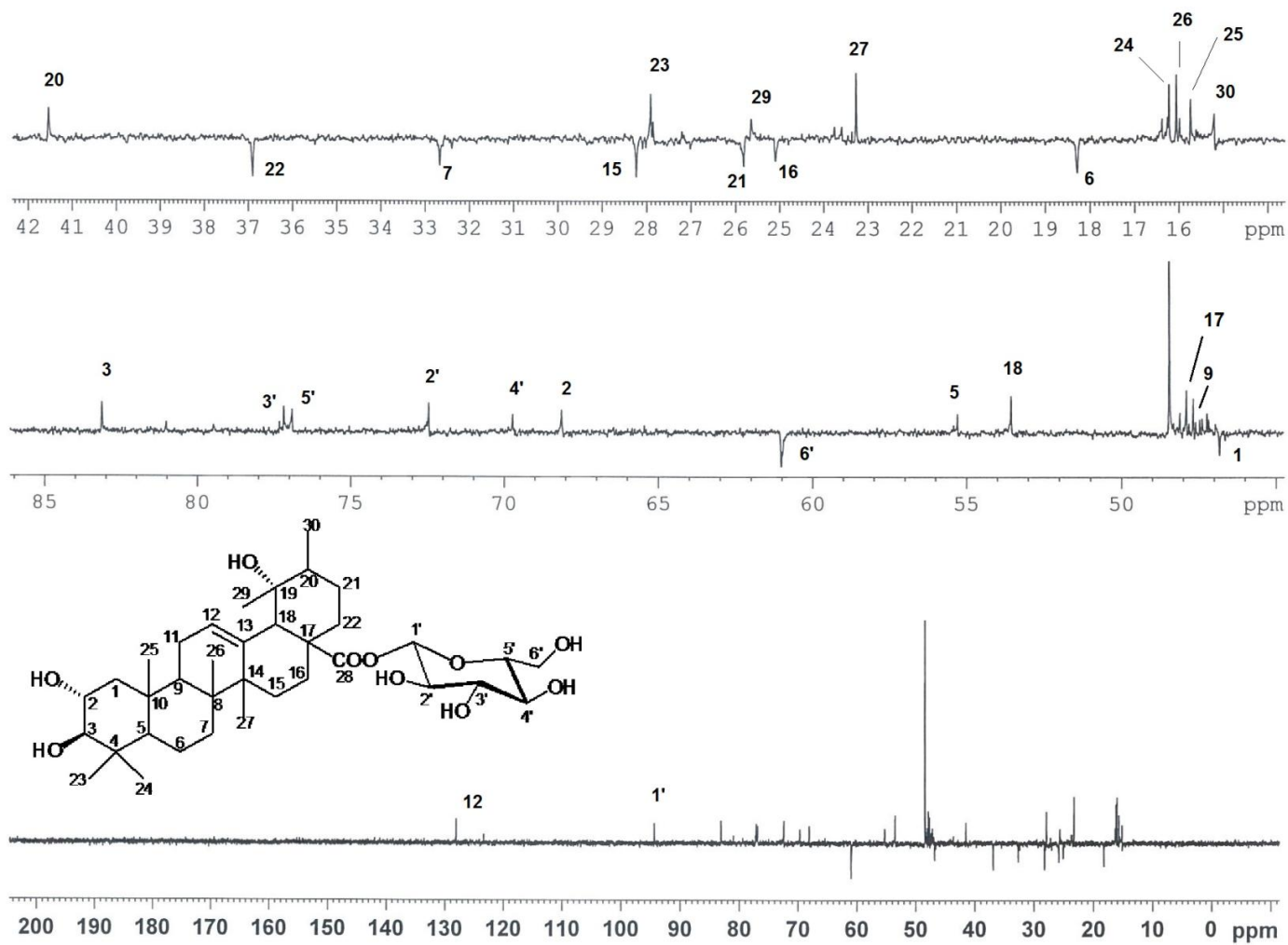


Figure S18. DEPT 135 (CD_3OD , 100 MHz) spectrum of Compound 4

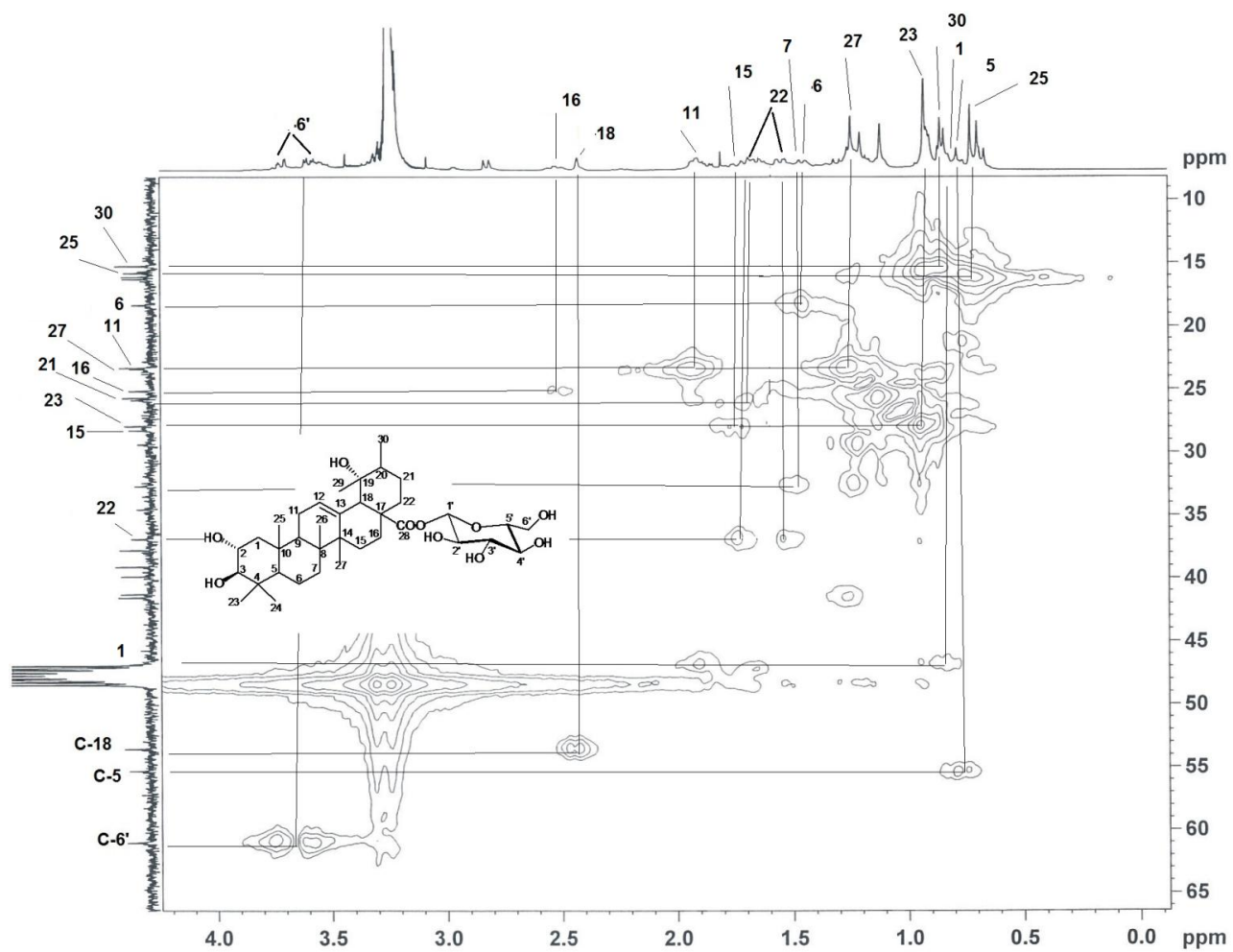


Figure S19. 2D- ^1H - ^{13}C -Heteronucleer COSY (HMQC) spectrum of Compound 4

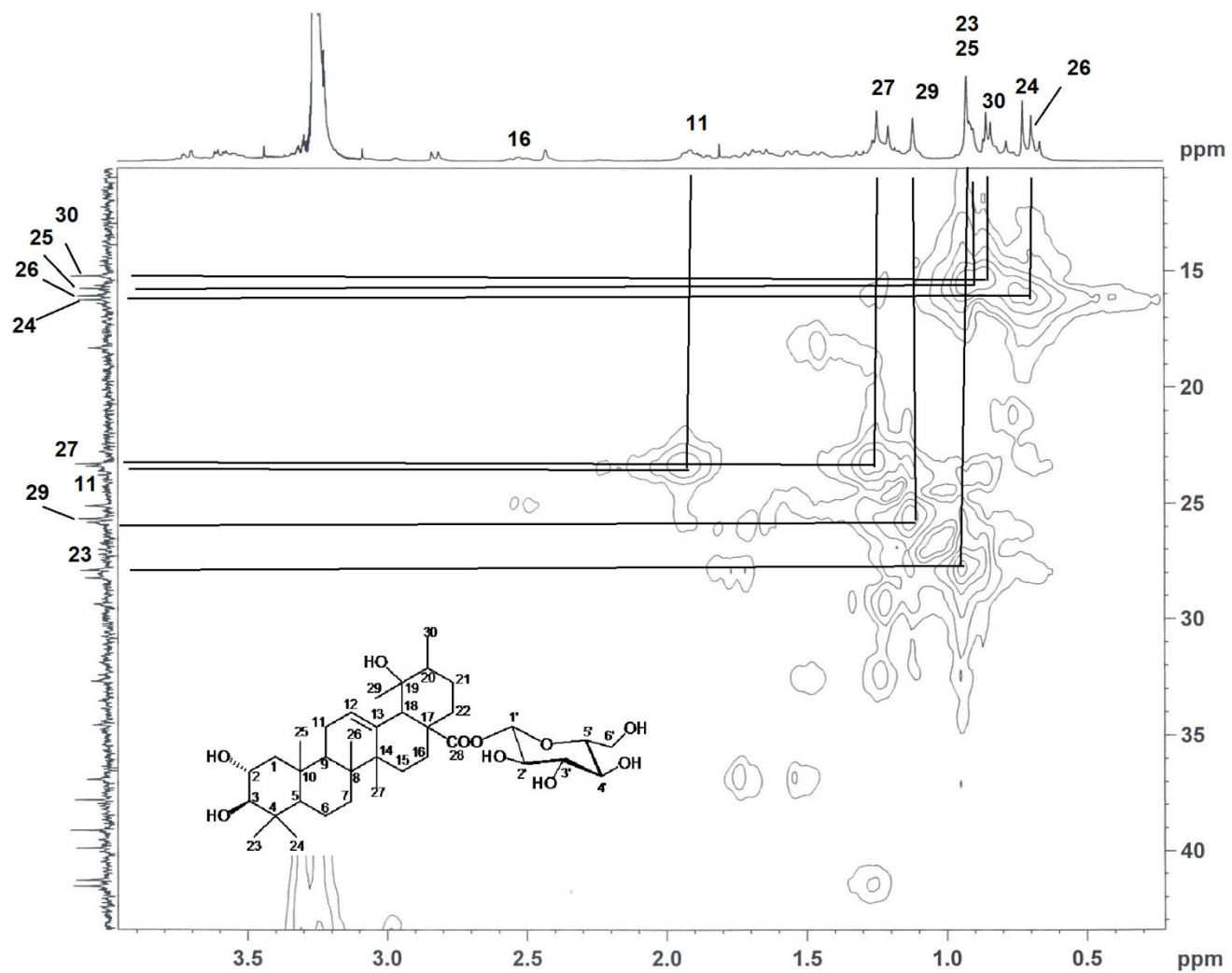


Figure S20. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMQC) spectrum of Compound 4

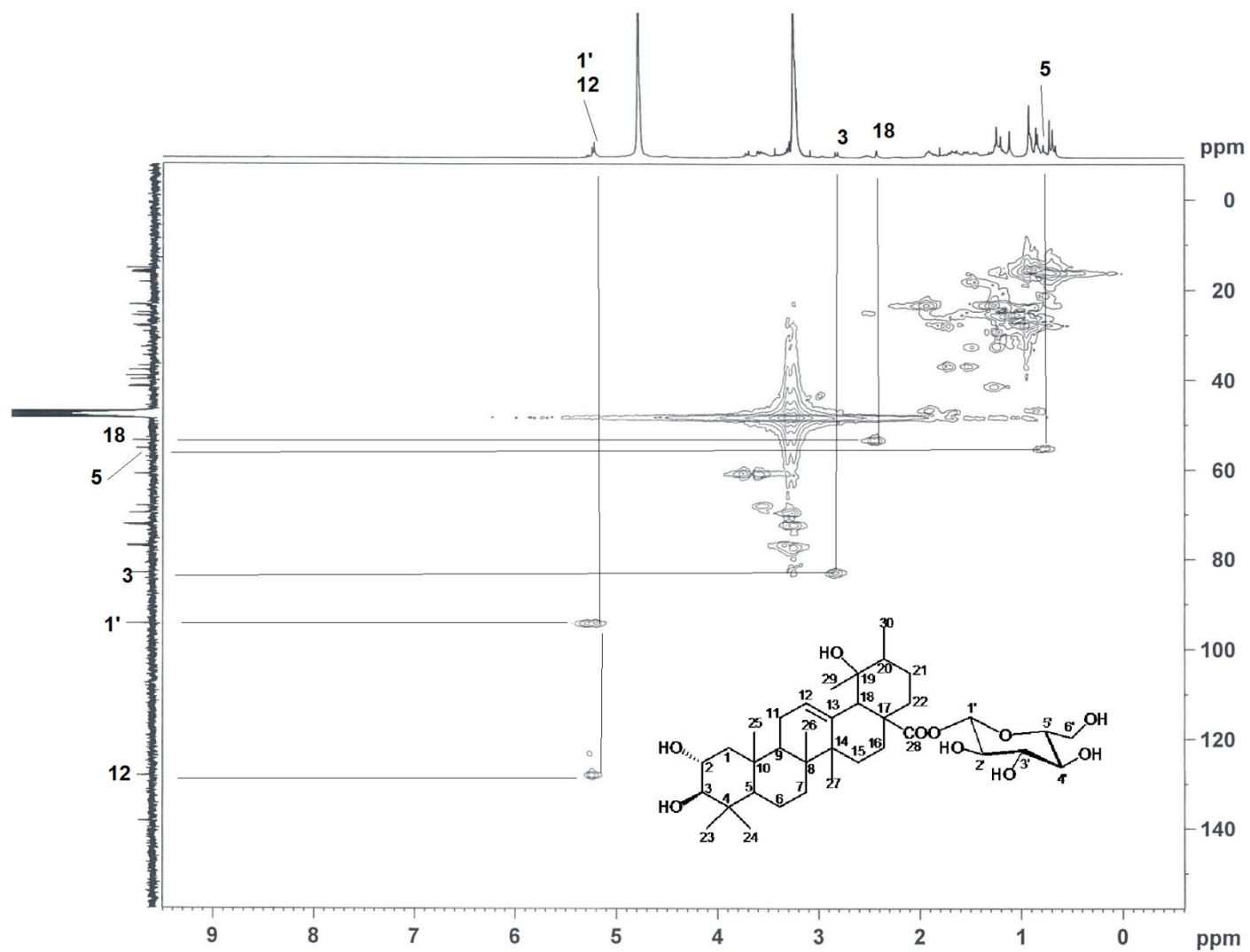


Figure S21. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMQC) spectrum of Compound 4

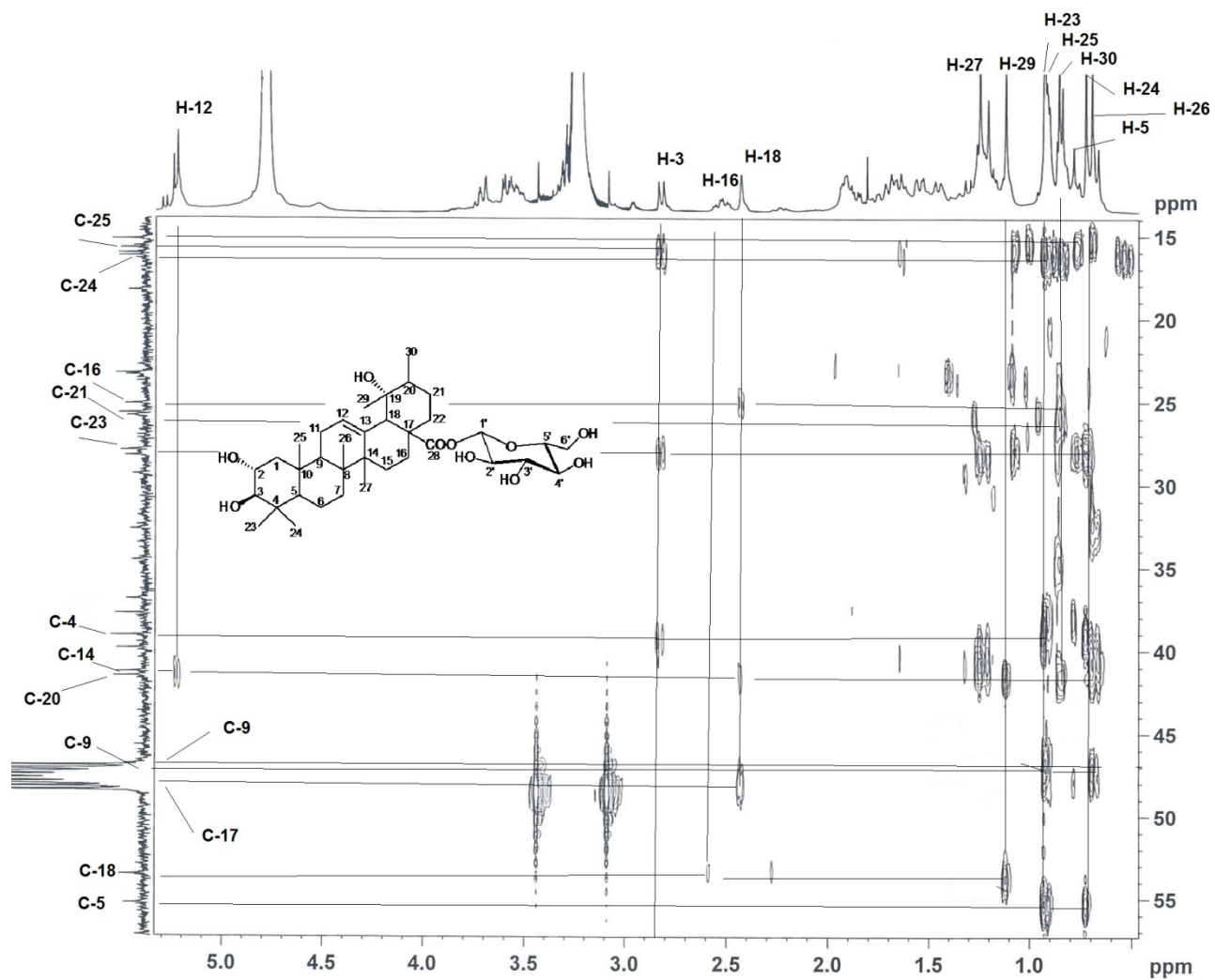


Figure S22. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMBC) spectrum of Compound 4

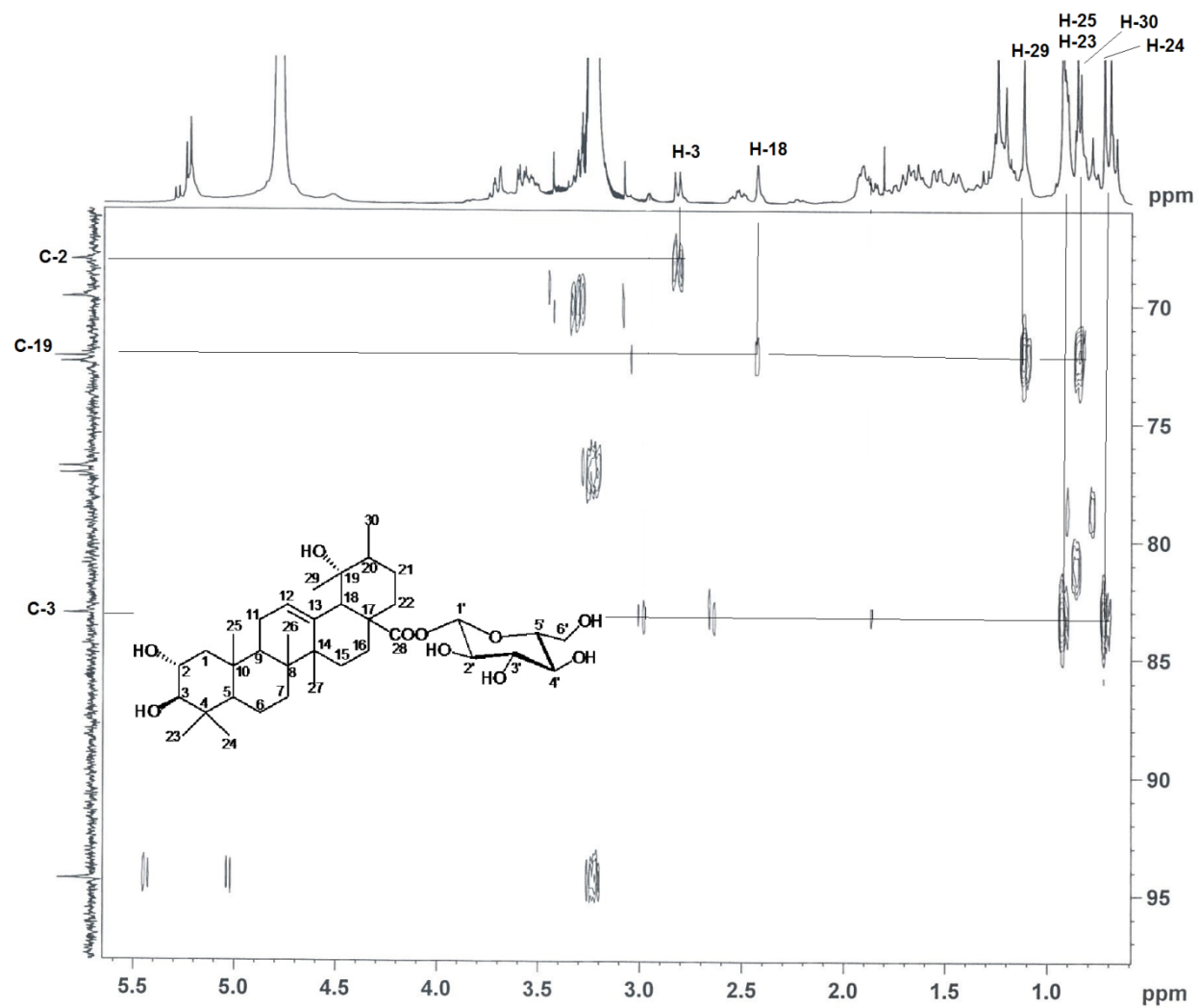


Figure S23. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMBC) spectrum of Compound 4

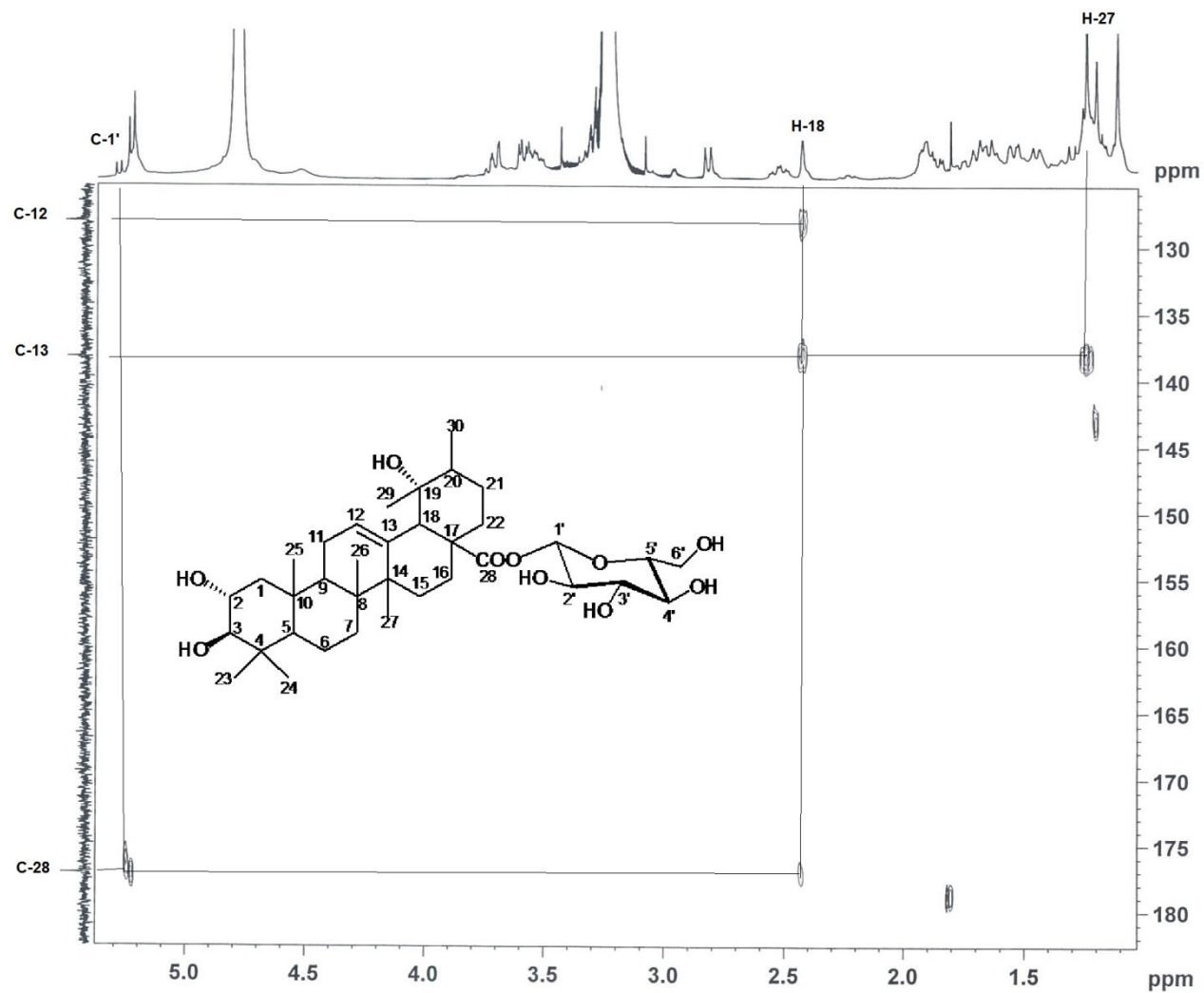


Figure S24. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMBC) spectrum of Compound 4

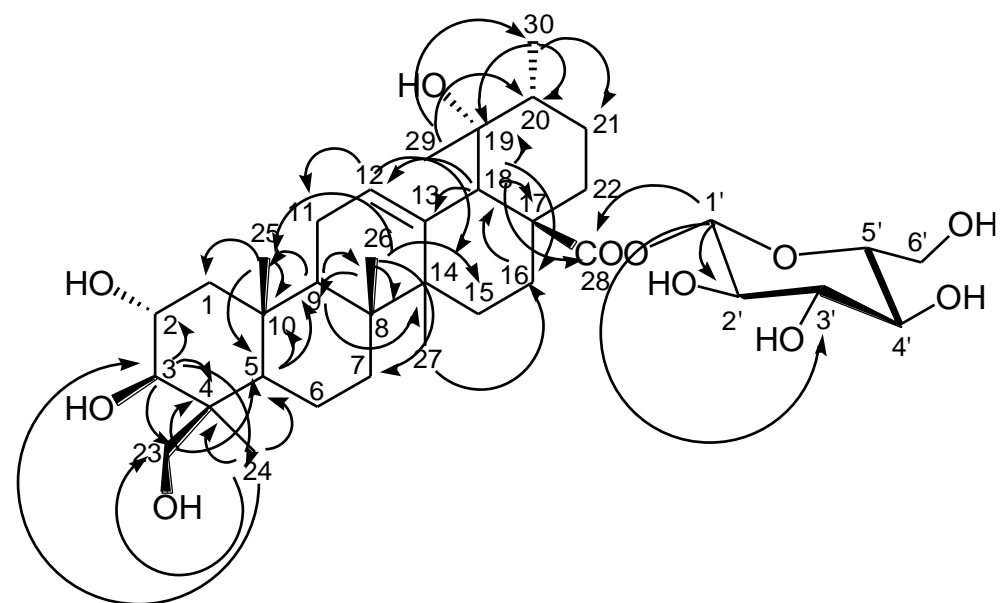


Figure S25. HMBC correlation of Compound 5

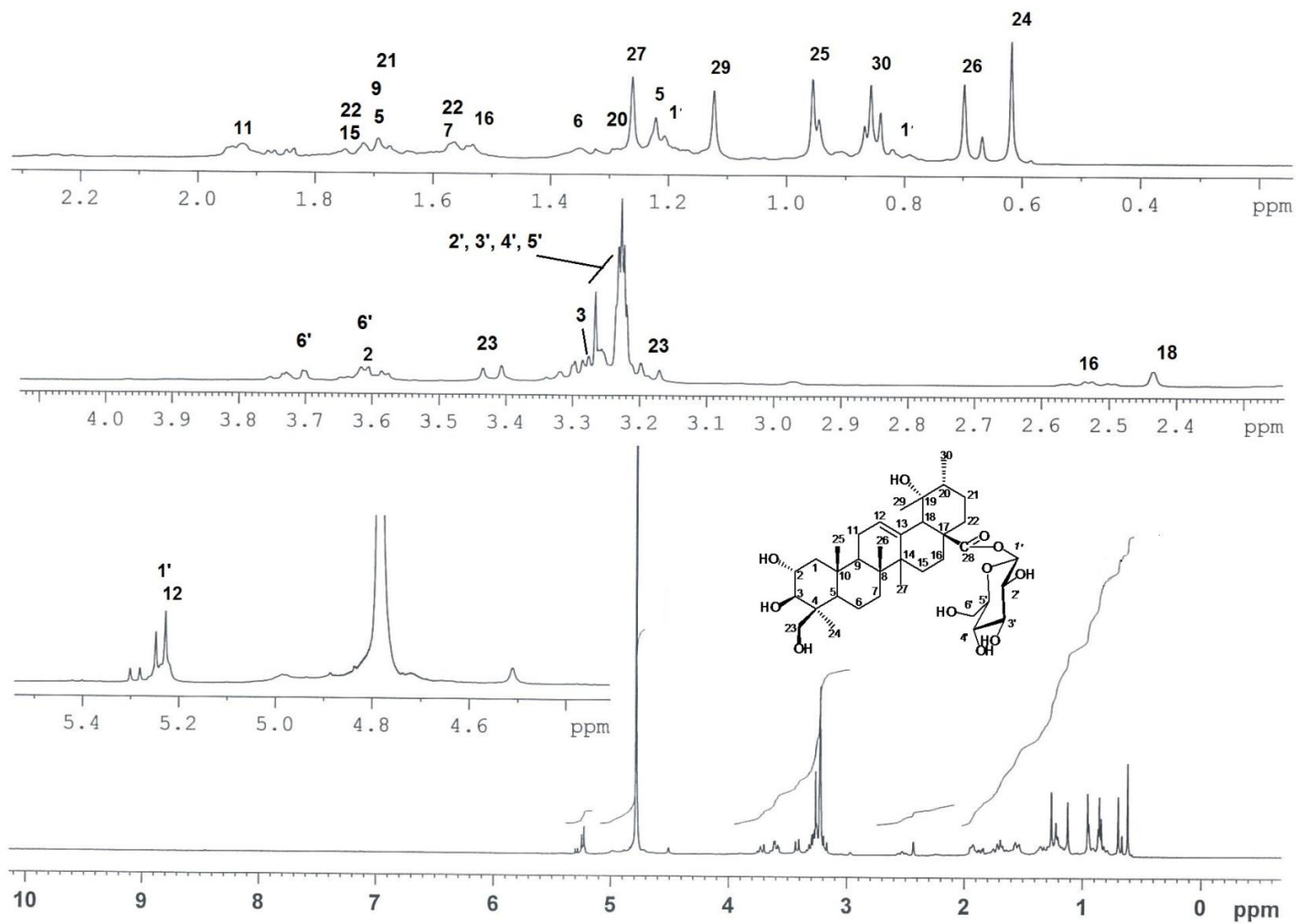


Figure S26. $^1\text{H-NMR}$ (CD_3OD , 400 MHz) spectrum of Compound 5

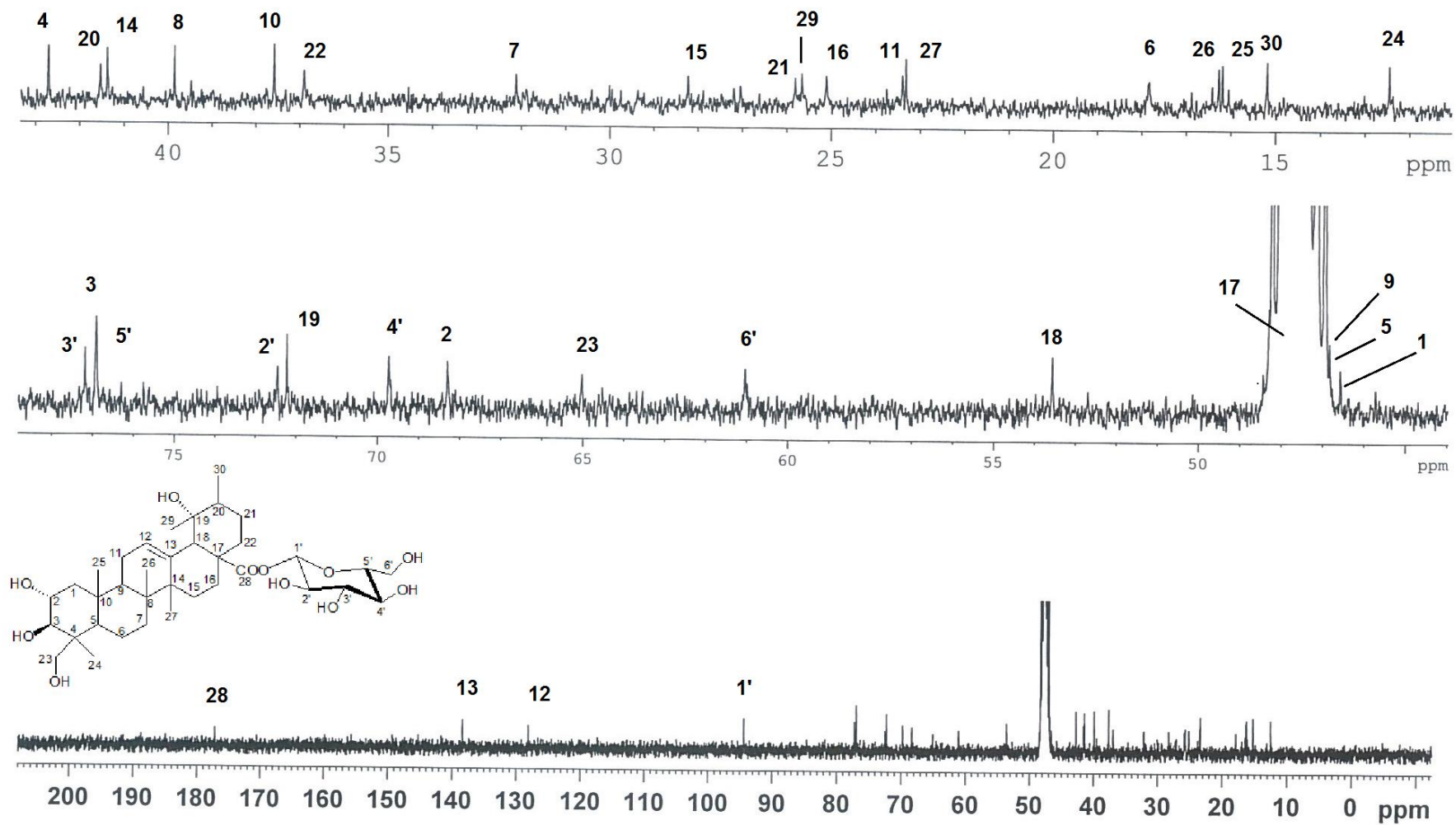


Figure S27. ^{13}C -NMR (CD_3OD , 100 MHz) spectrum of Compound 5

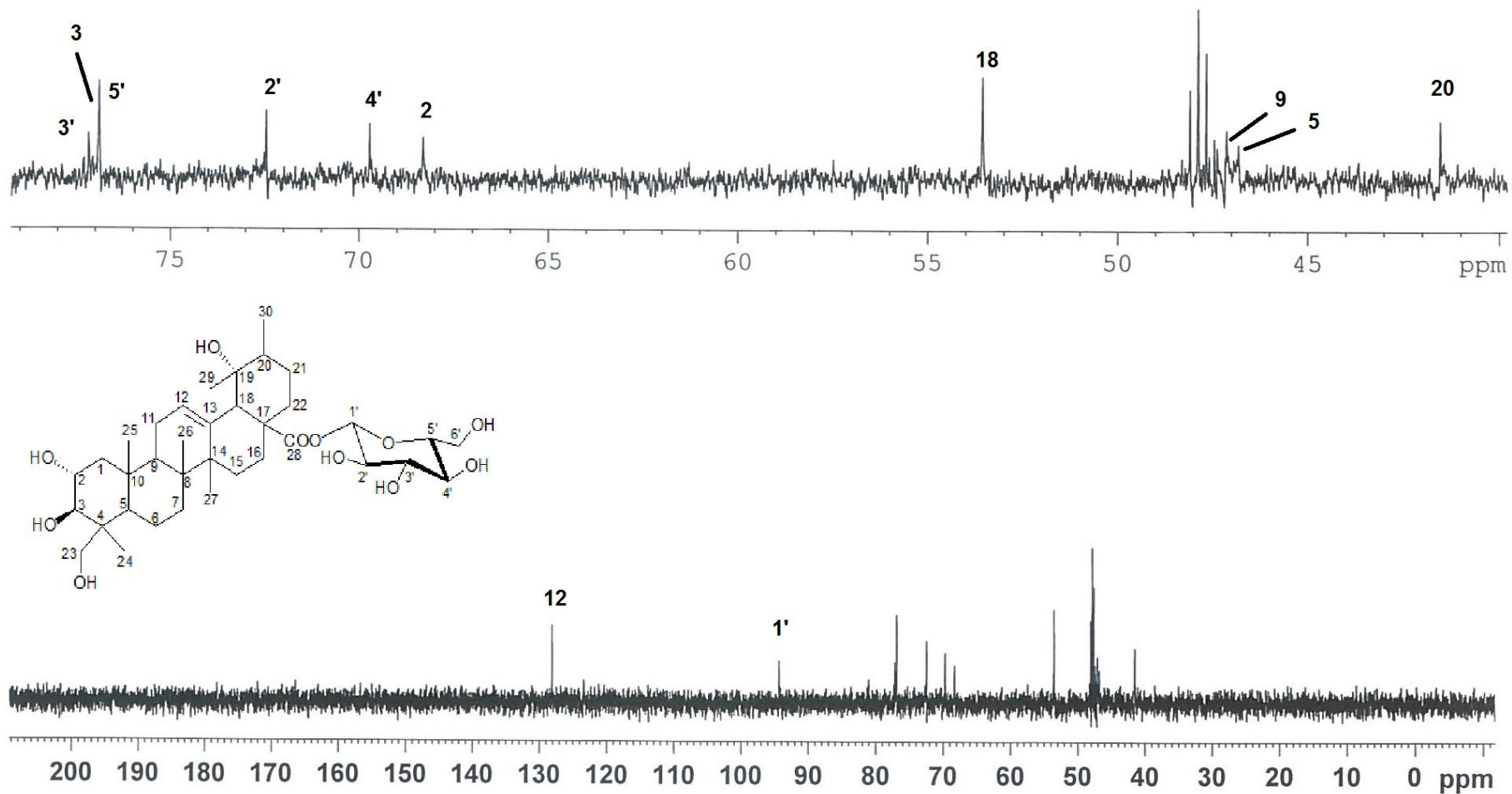


Figure S28. DEPT 90 (CD₃OD, 100 MHz) spectrum of Compound 5

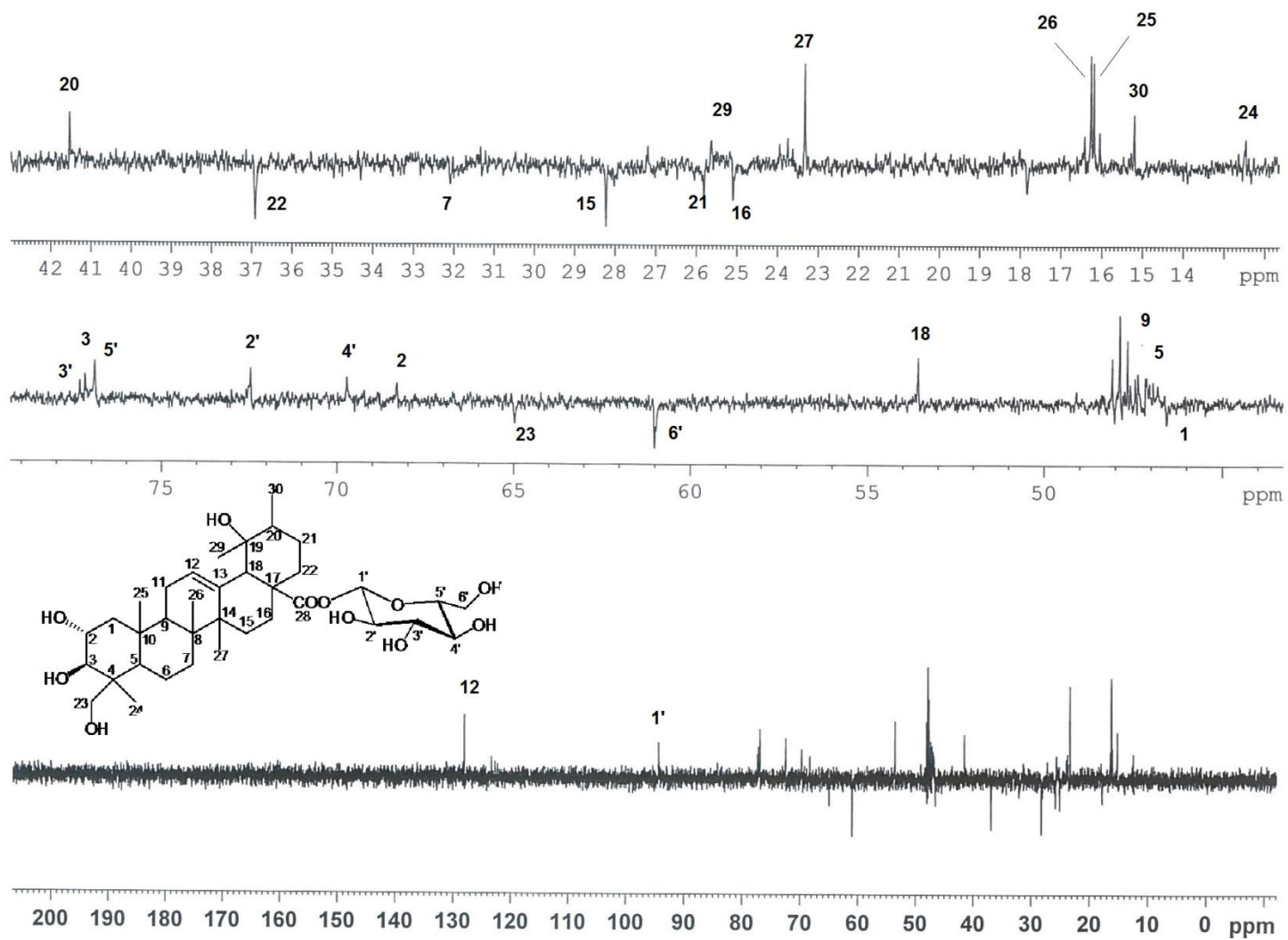


Figure S29. DEPT 135 (CD₃OD, 100 MHz) spectrum of Compound 5

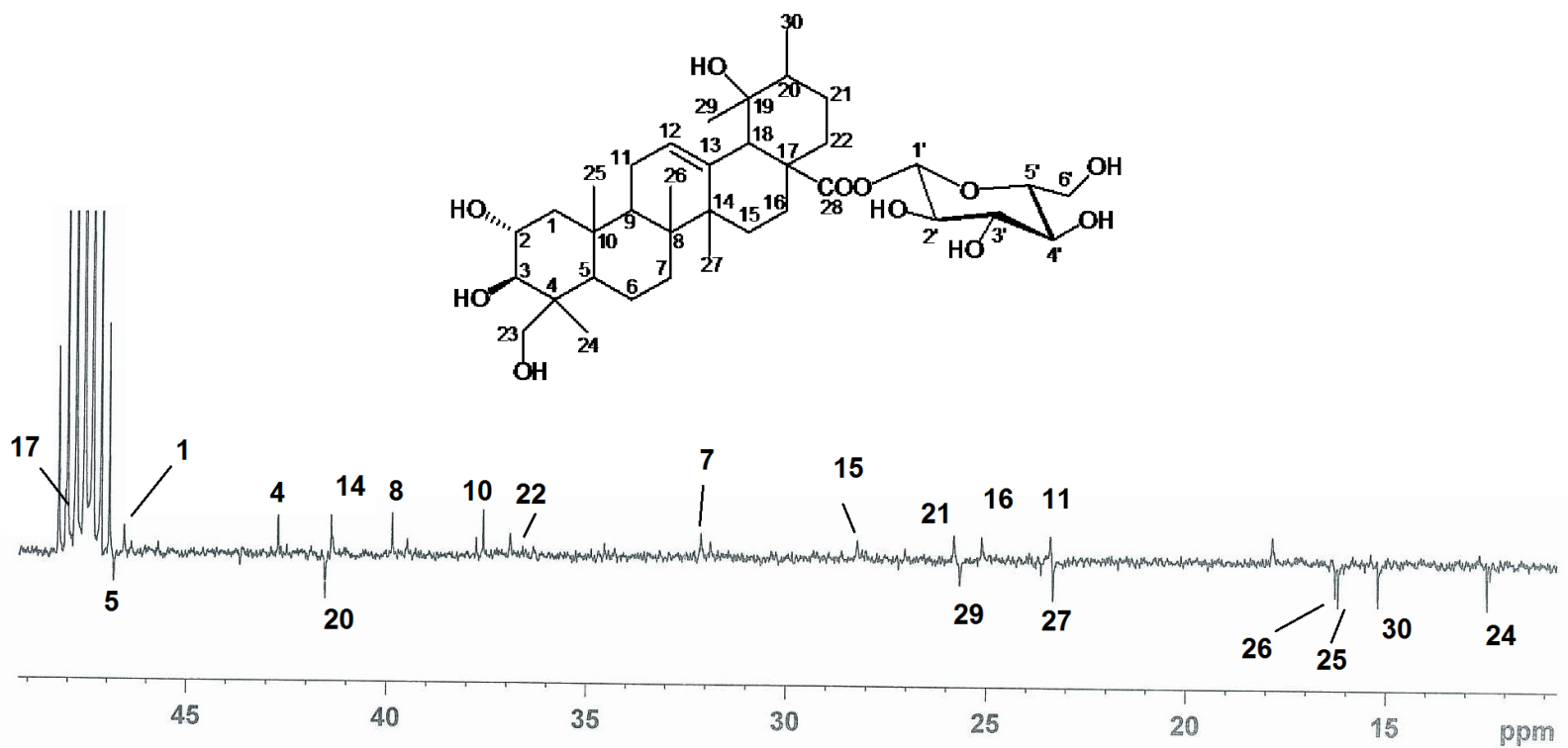
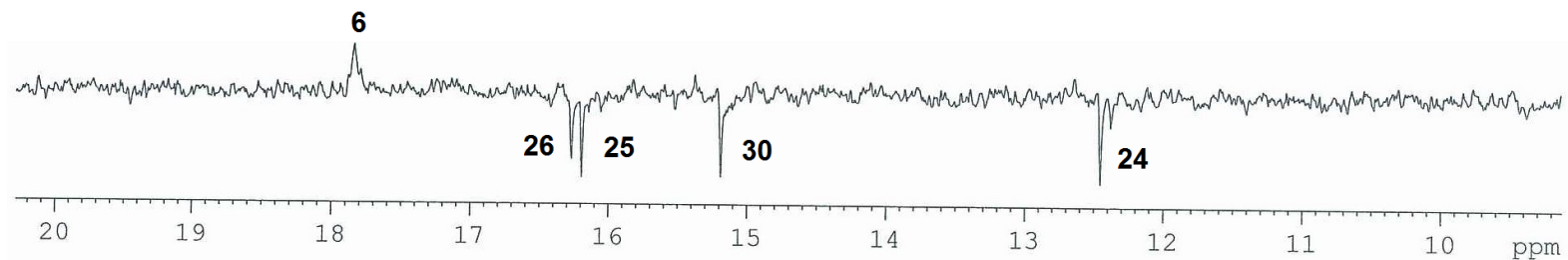


Figure S30. APT spectrum of Compound 5

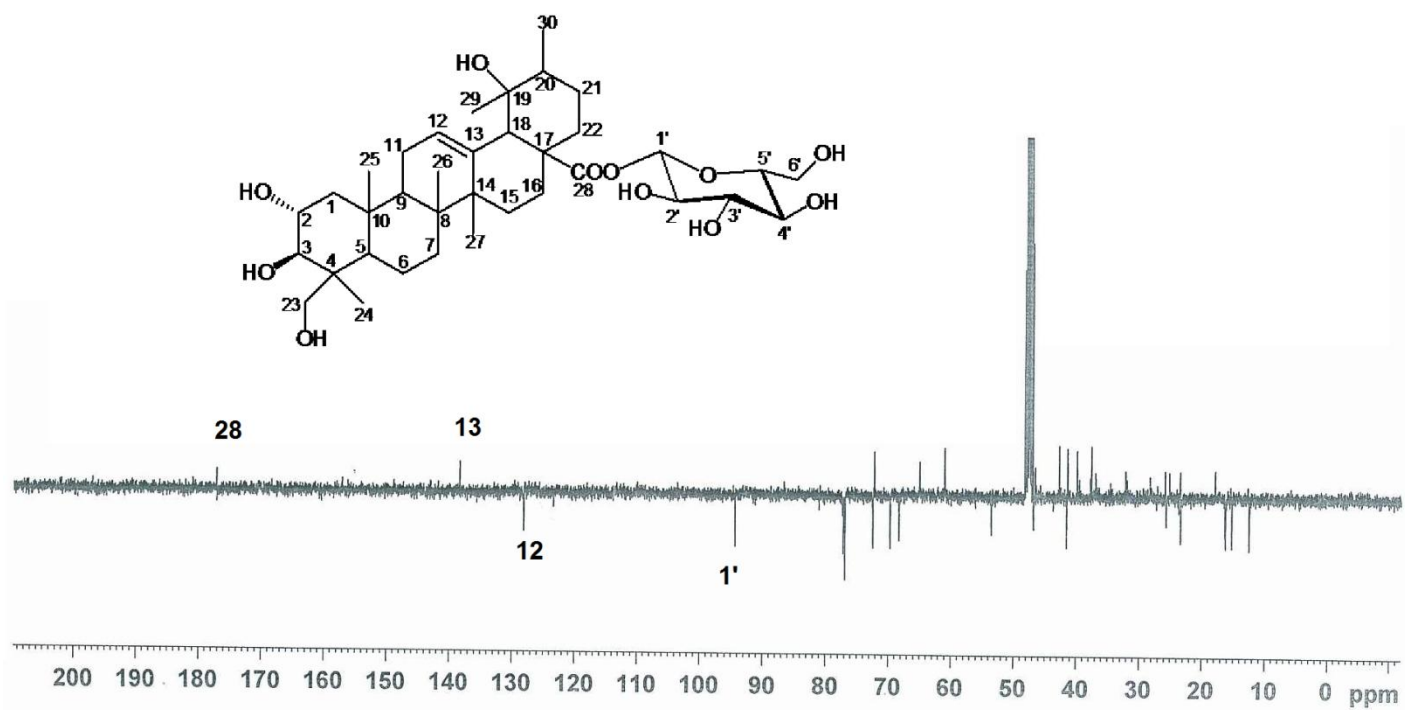
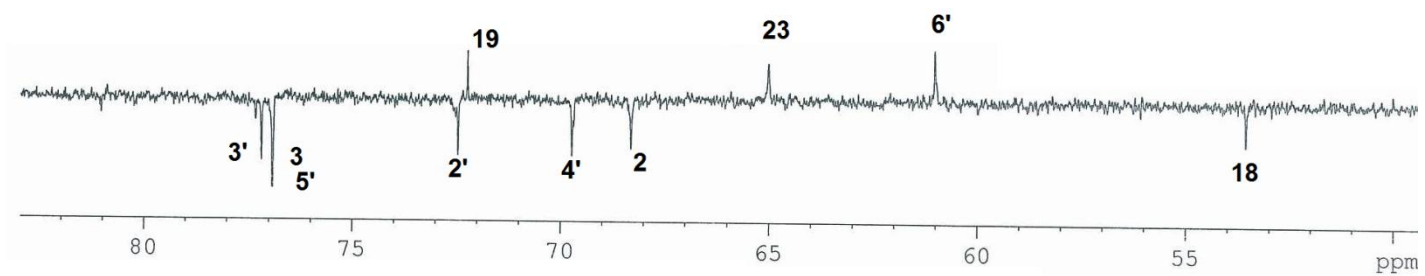


Figure S31. APT spectrum of Compound 5

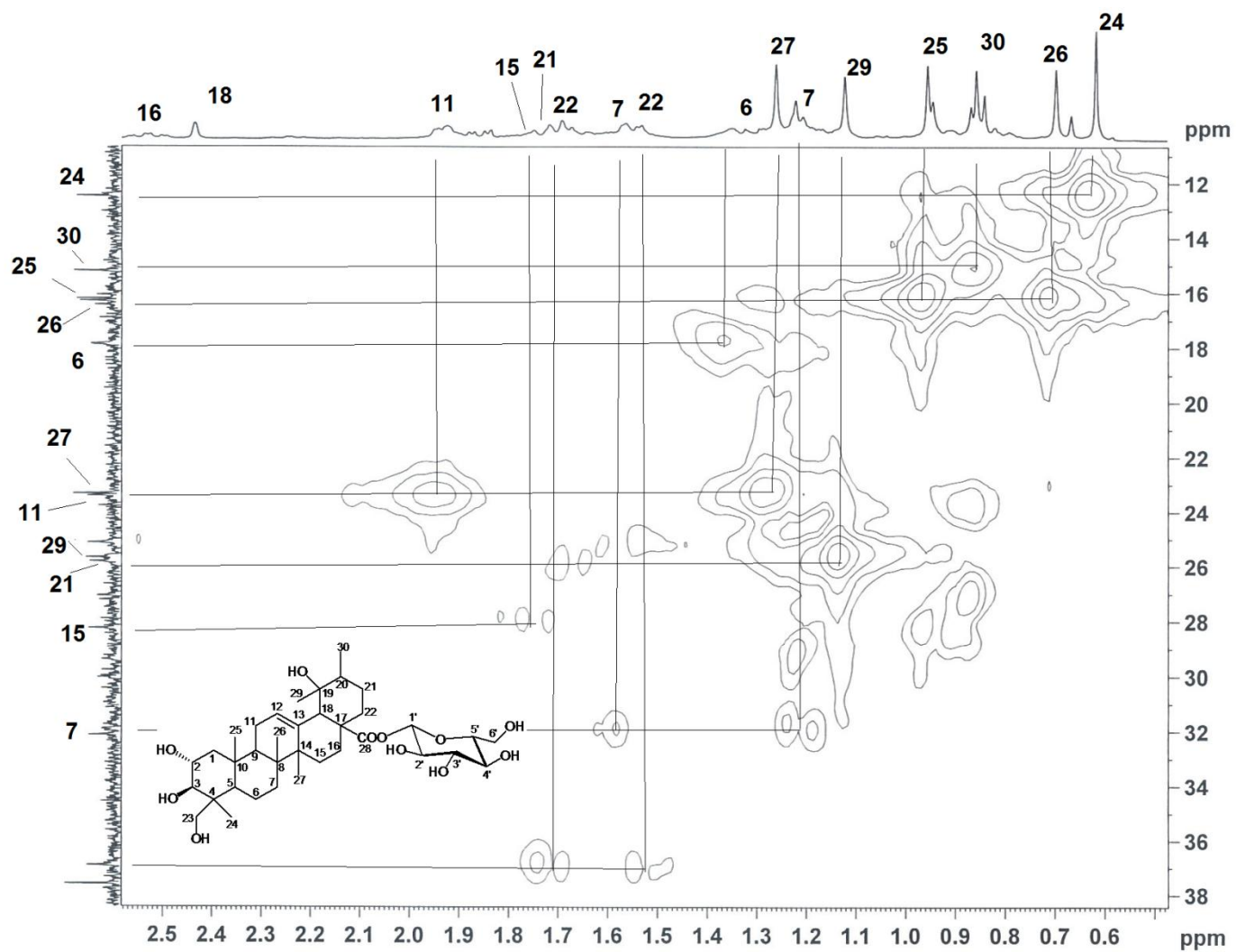


Figure S32. 2D- ^1H - ^{13}C Heteronuclear COSY (HMQC) spectrum of Compound 5

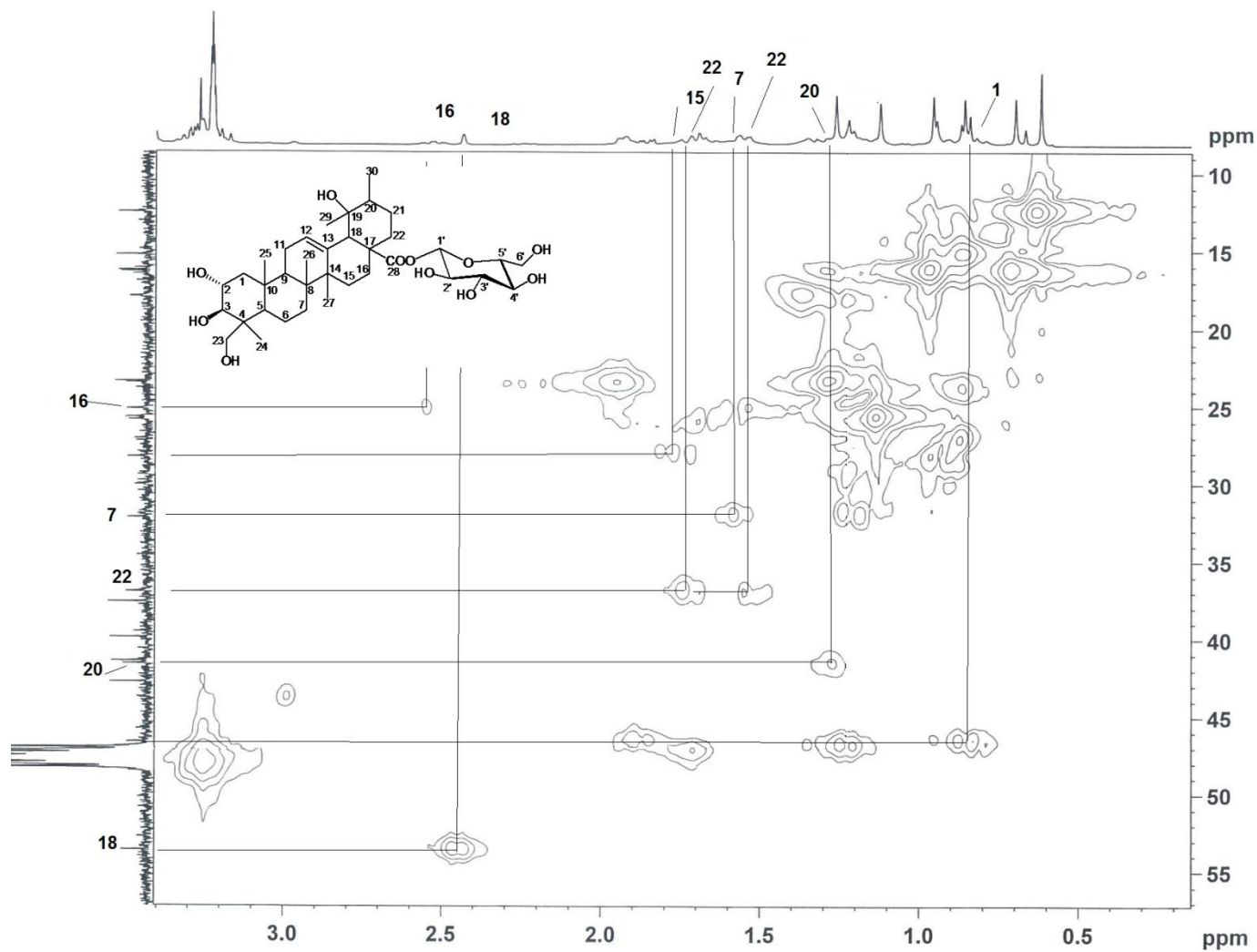


Figure S33. 2D-¹H-¹³C- Heteronuclear COSY (HMQC) spectrum of Compound 5

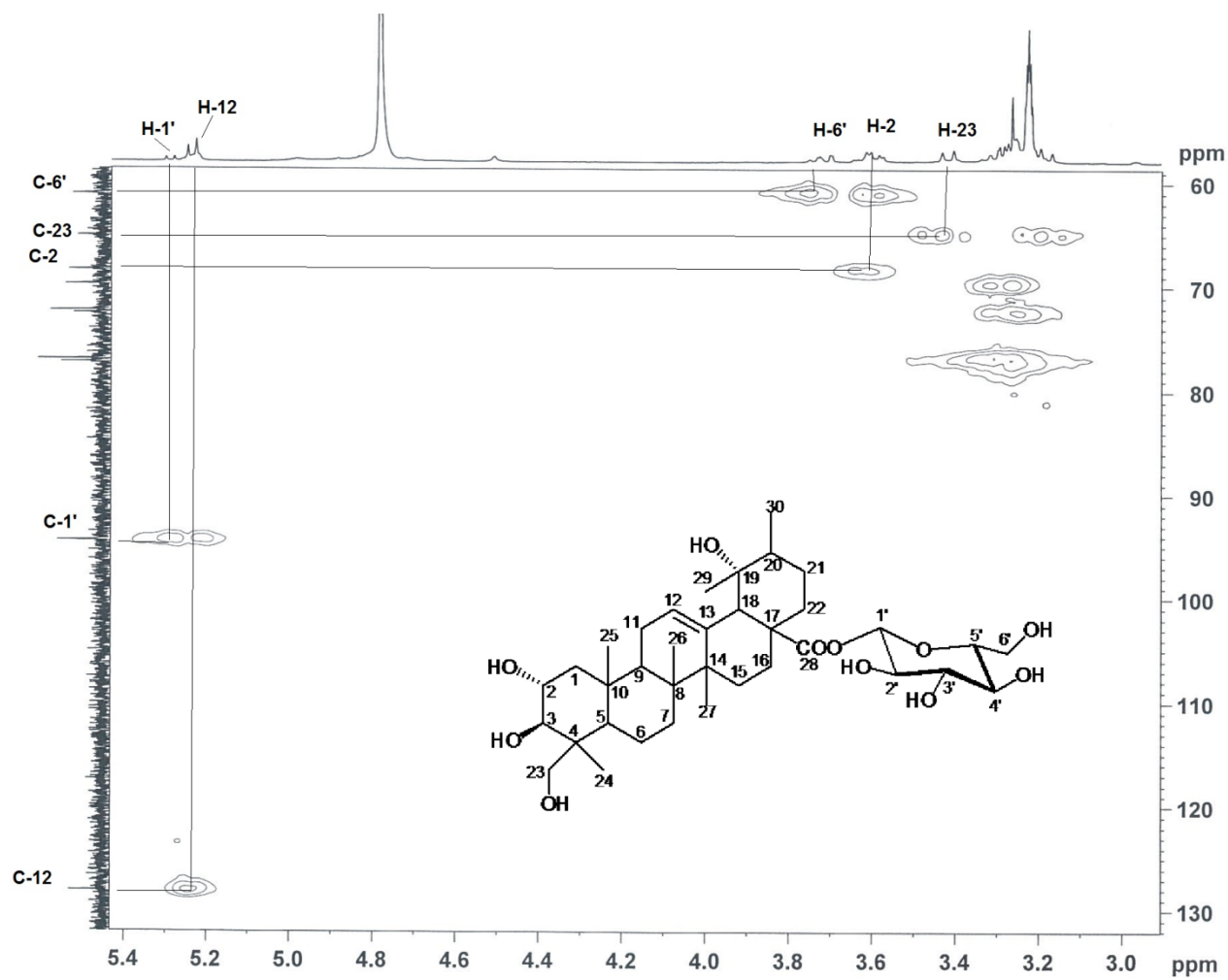


Figure S34. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMQC) spectrum of Compound 5

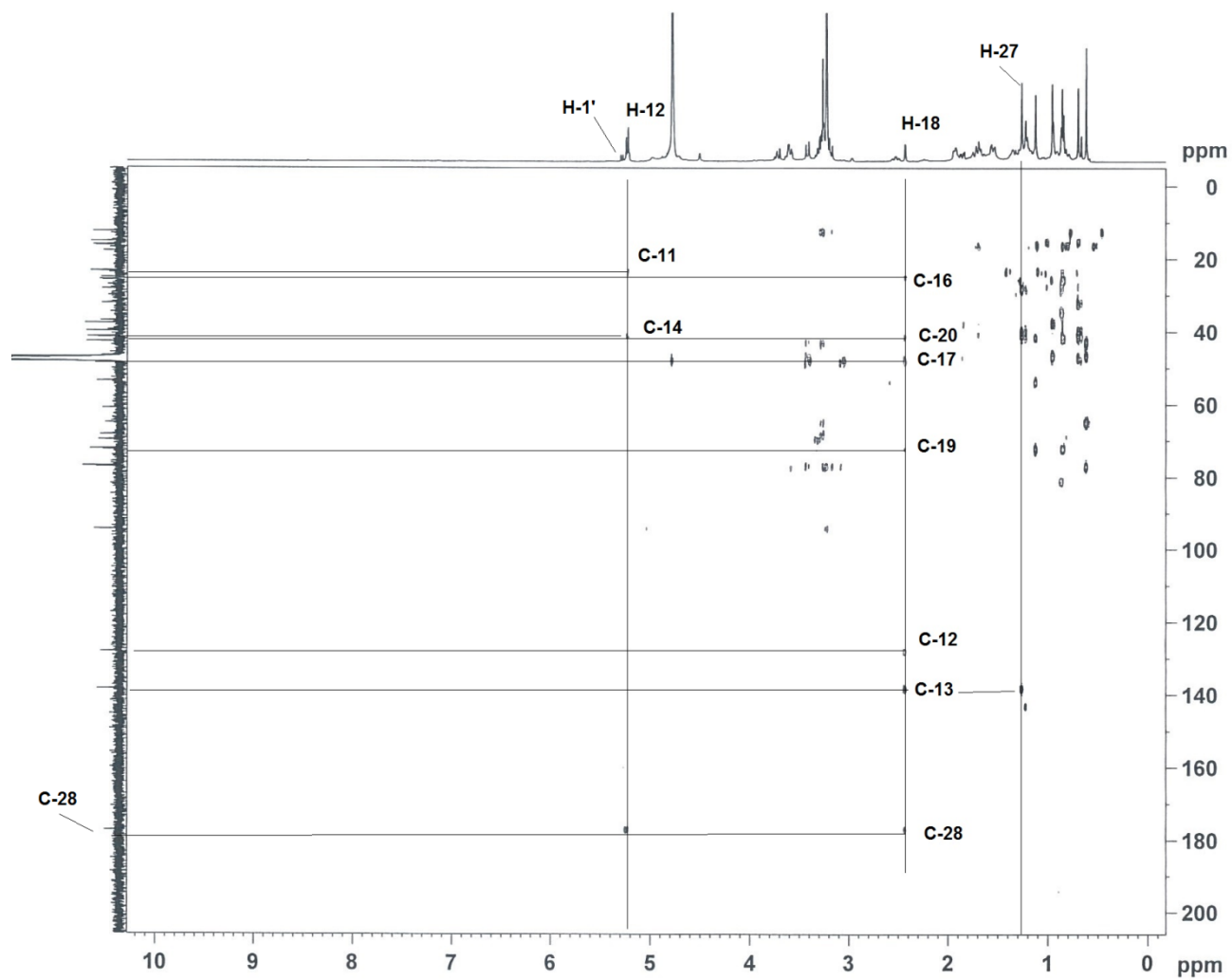


Figure S35. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMBC) spectrum of Compound 5

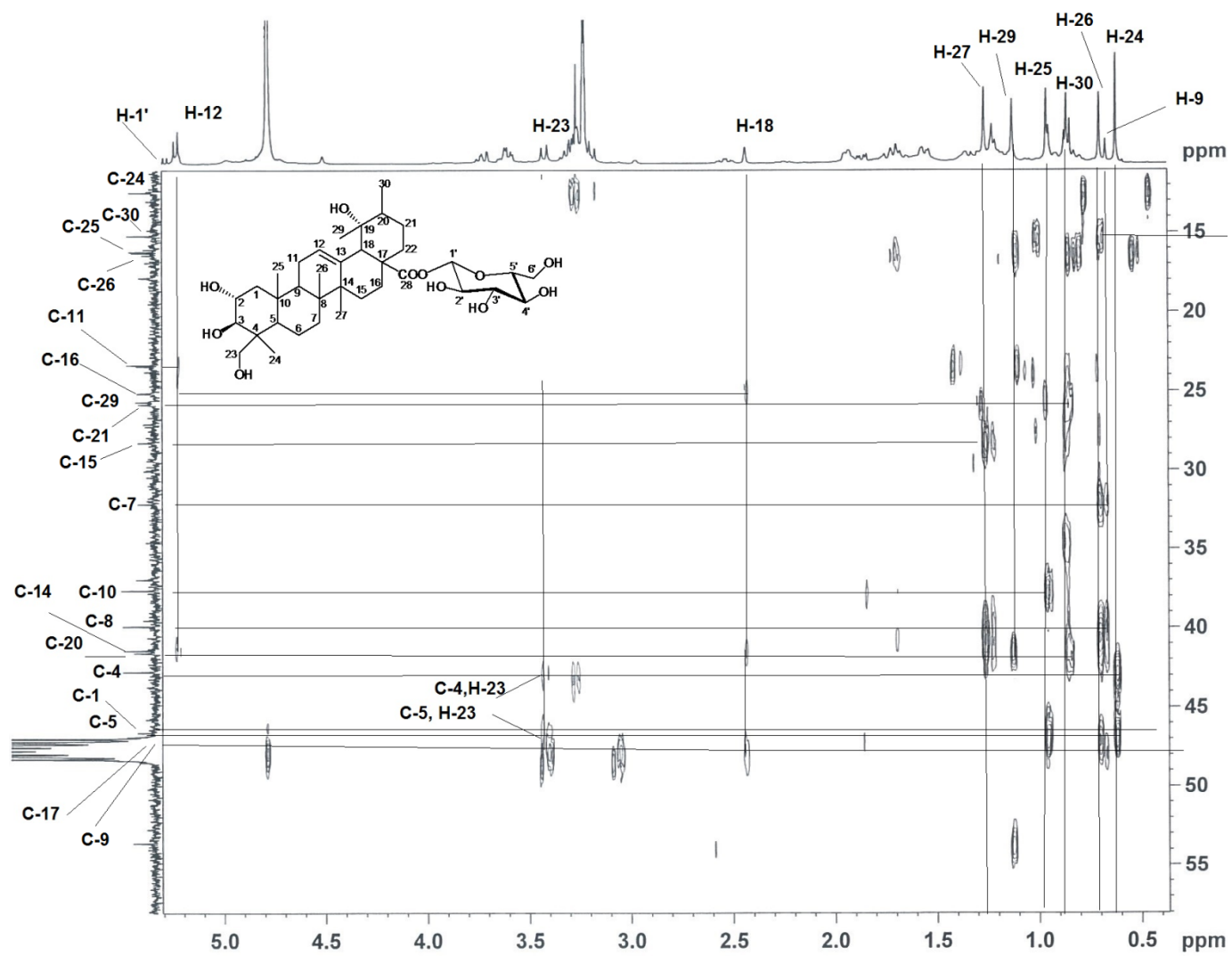


Figure S36. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMBC) spectrum of Compound 5

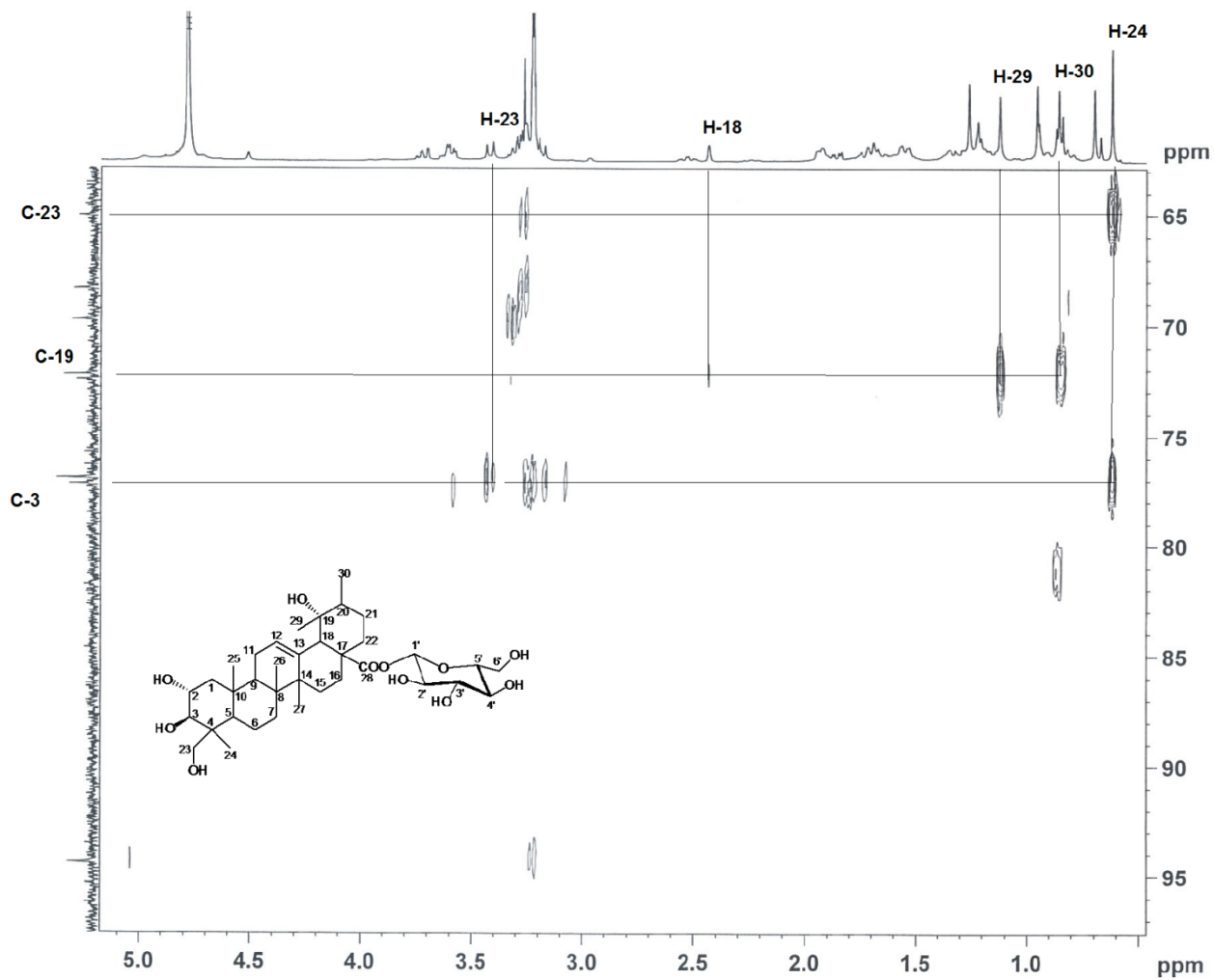


Figure S37. 2D- ^1H - ^{13}C - Heteronuclear COSY (HMBC) spectrum of Compound 5

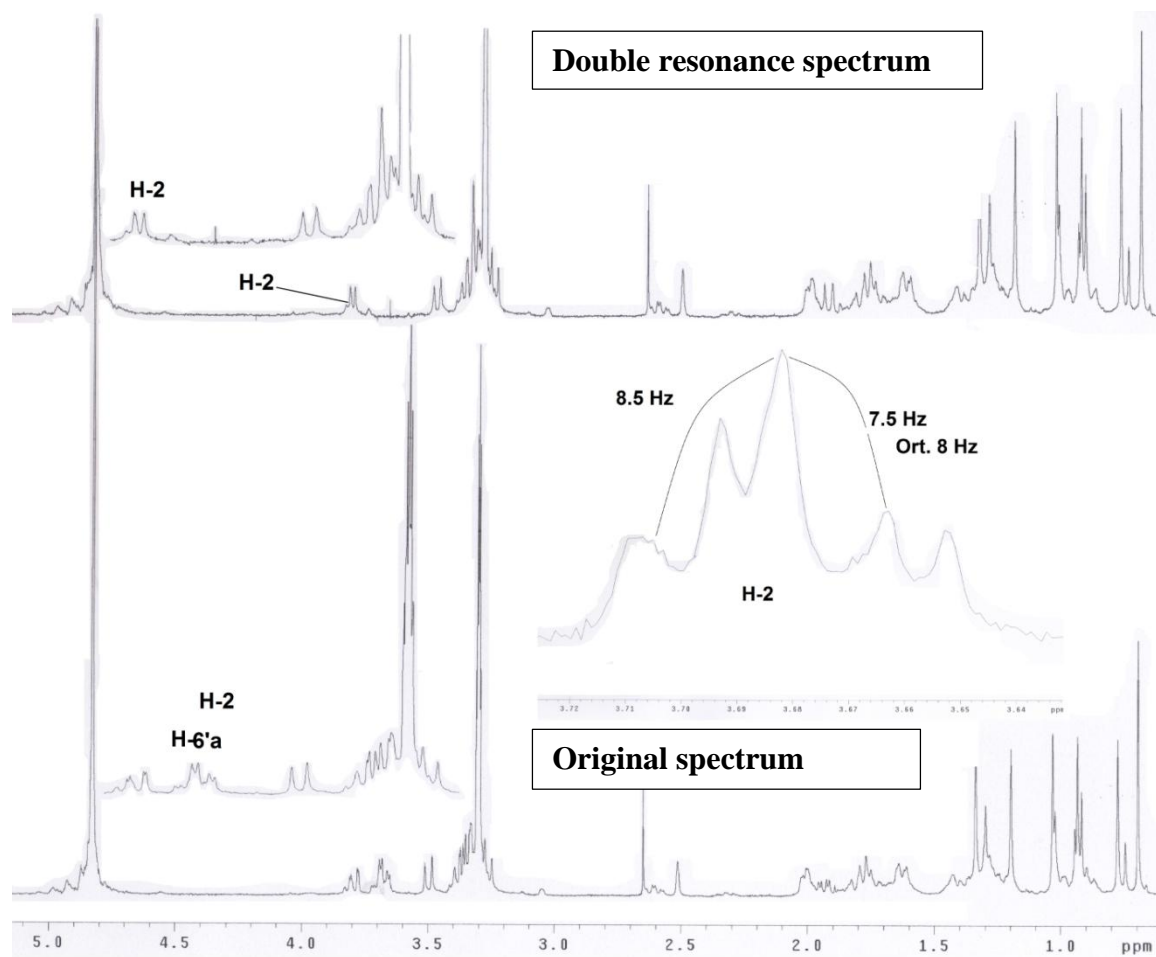


Figure S38. NOE spectrum of H-6 proton of Compound 5

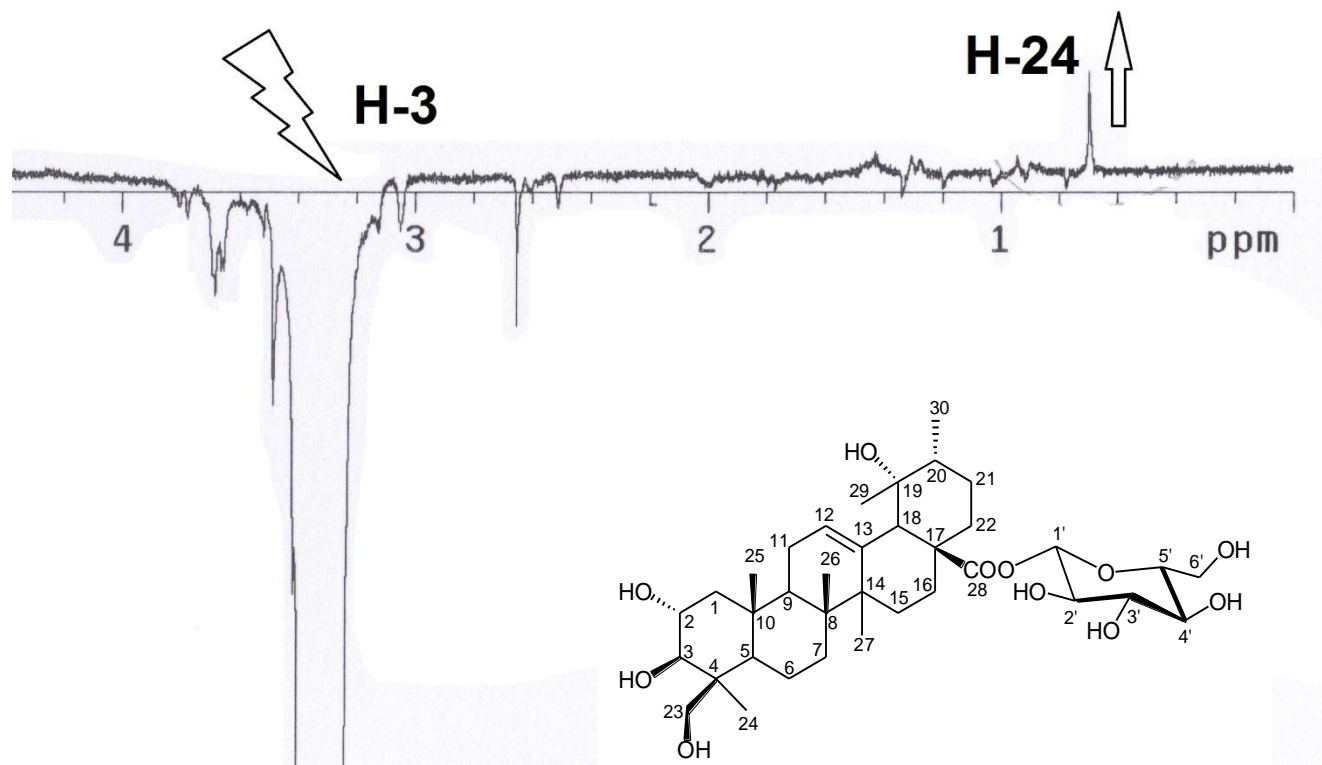


Figure S39. NOE spectrum of between H-3 and H-24 proton of Compound 5

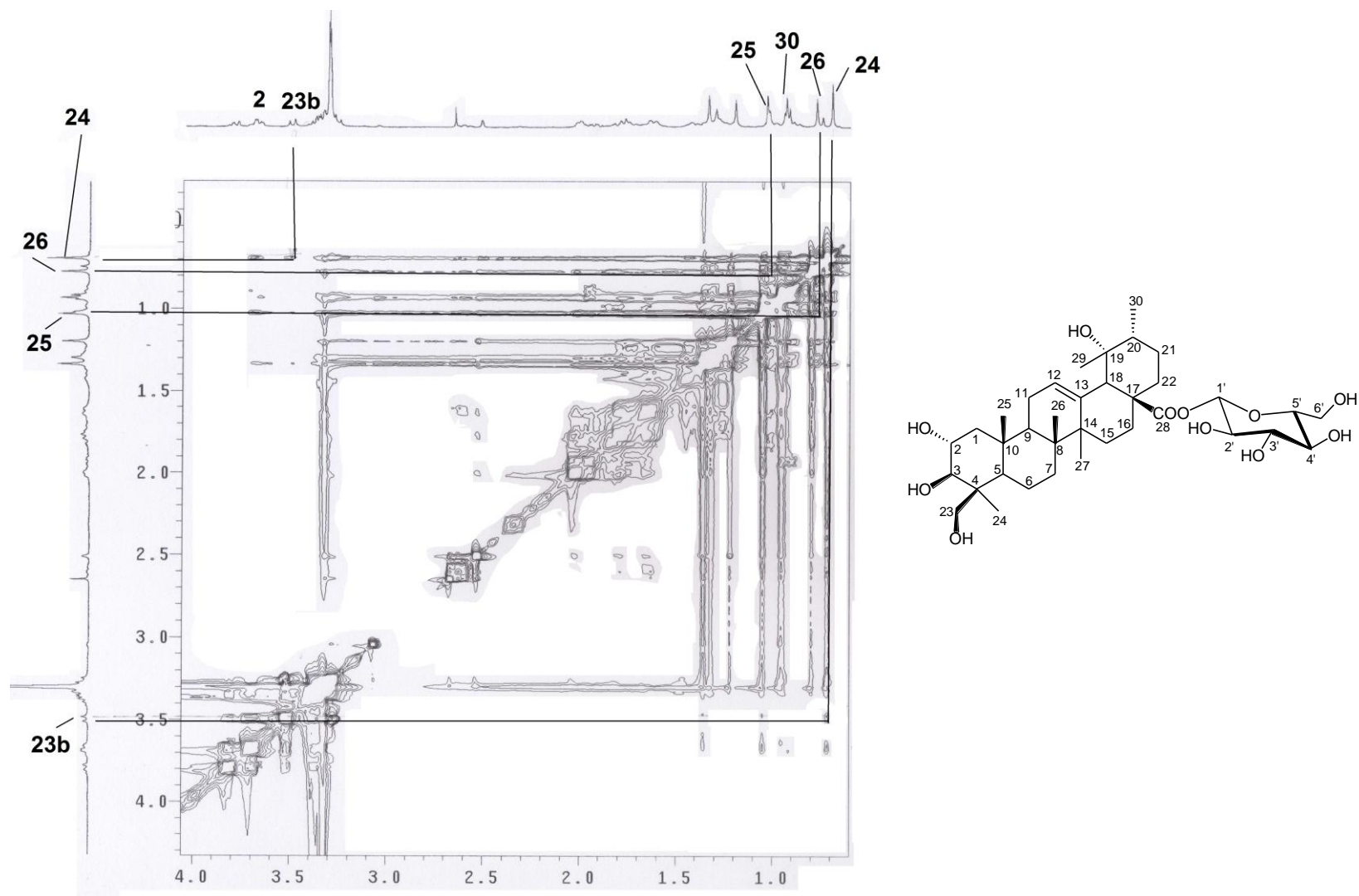


Figure S40. NOESY spectrum of Compound 5

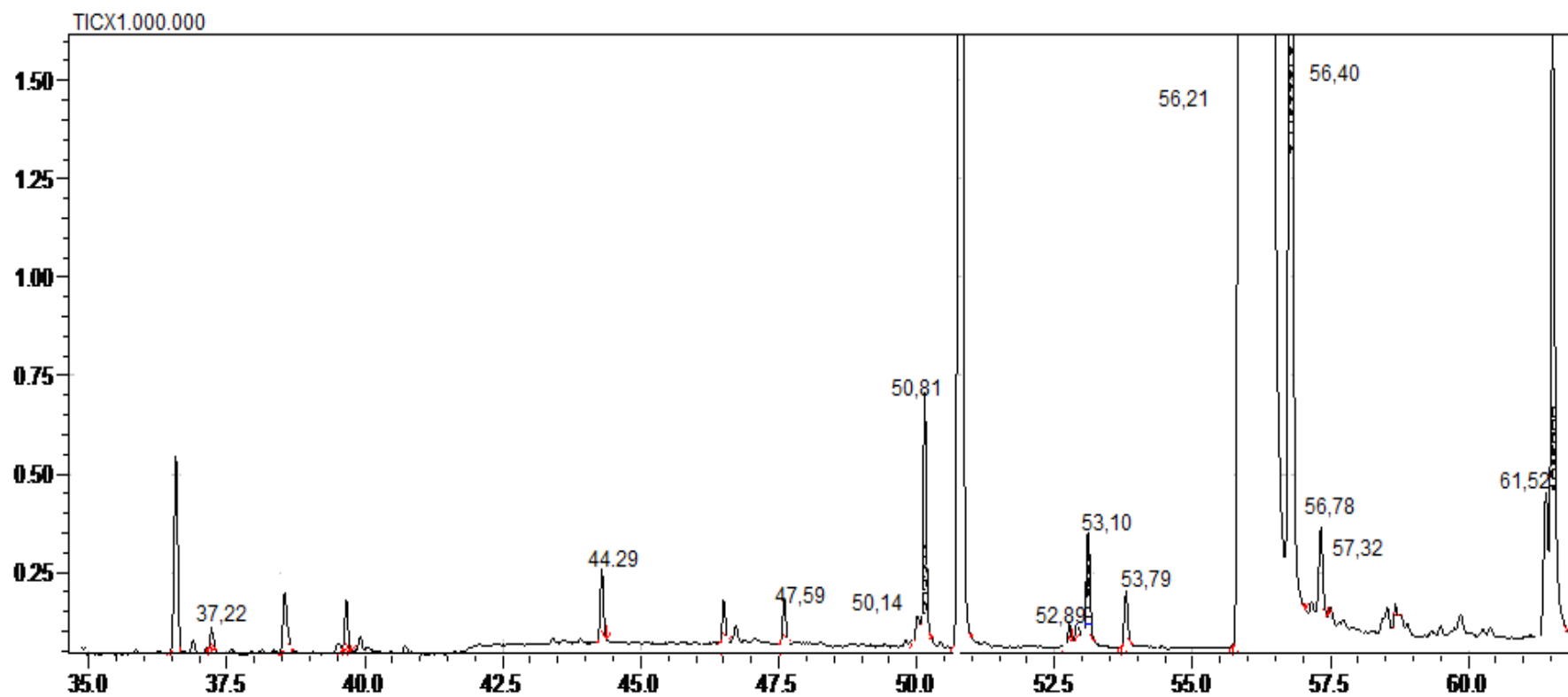


Figure S41. GC-MS chromatogram of fatty acids in *R. pimpinellifolia* fruits