Supplementary Figures

For Compound 1

Figure S1. ¹H-NMR spectrum of Compound 1 in CD₃OD.

Figure S2. ¹³C-NMR spectrum of Compound 1 in CD₃OD.

Figure S3. ¹H-¹H COSY spectrum of Compound 1 in CD₃OD.

Figure S4. gHSQC spectrum of Compound 1 in CD₃OD.

Figure S5. gHMBC spectrum of Compound 1 in CD₃OD.

Figure S6. NOESY spectrum of Compound 1 in CD₃OD.

Figure S7. HRESIMS spectrum of Compound 1.

Figure S8. Absolute configuration determination for C-1 and C-5 in 1 by modified Mosher's ester method.

For Compound 2

Figure S9. ¹H-NMR spectrum of Compound 2 in CD₃OD.

Figure S10. ¹³C-NMR spectrum of Compound **2** in CD₃OD.

Figure S11. ¹H-¹H COSY spectrum of Compound 2 in CD₃OD.

Figure S12. gHSQC spectrum of Compound 2 in CD₃OD.

Figure S13. gHMBC spectrum of Compound 2 in CD₃OD.

Figure S14. NOESY spectrum of Compound 2 in CD₃OD.

Figure S15. HRESIMS spectrum of Compound 2.

For Compound 3

Figure S16. ¹H-NMR spectrum of Compound 3 in CD₃OD.

Figure S17. ¹H-NMR spectrum of Compound 3 in CDCl₃.

Figure S18. ¹³C-NMR spectrum of Compound **3** in CD₃OD.

Figure S19. ¹H-¹H COSY spectrum of Compound 3 in CD₃OD.

Figure S20. gHSQC spectrum of Compound 3 in CD₃OD.

Figure S21. gHMBC spectrum of Compound 3 in CD₃OD.

Figure S22. NOESY spectrum of Compound 3 in CD₃OD.

Figure S23. NOESY spectrum of Compound 3 in CDCl₃.

Figure S24. HRESIMS spectrum of Compound 3.

For Compound 4

Figure S25. ¹H-NMR spectrum of Compound 4 in CD₃OD.

Figure S26. ¹³C-NMR spectrum of Compound **4** in CD₃OD.

Figure S27. ¹H-¹H COSY spectrum of Compound 4 in CD₃OD.

Figure S28. gHSQC spectrum of Compound 4 in CD₃OD.

Figure S29. gHMBC spectrum of Compound 4 in CD₃OD.

Figure S30. NOESY spectrum of Compound 4 in CD₃OD.

Figure S31. HRESIMS spectrum of Compound 4.

For Compound 5

Figure S32. ¹H-NMR spectrum of Compound 5 in CDCl₃.

Figure S33. ¹³C-NMR spectrum of Compound 5 in CDCl₃.

Figure S34. ¹H-¹H COSY spectrum of Compound 5 in CDCl₃.

Figure S35. gHSQC spectrum of Compound 5 in CDCl₃.

Figure S36. gHMBC spectrum of Compound 5 in CDCl₃.

Figure S37. NOESY spectrum of Compound 5 in CDCl₃.

Figure S38. HRESIMS spectrum of Compound 5.

Figure S1. ¹H-NMR spectrum of Compound 1 in CD₃OD.

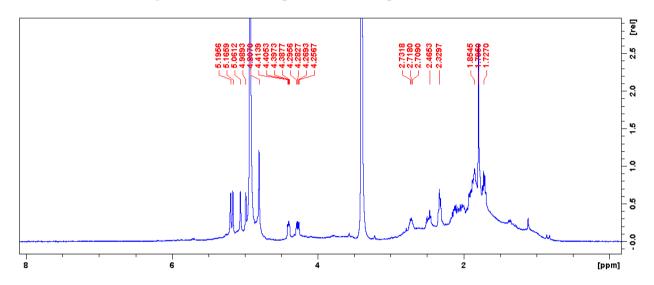


Figure S2. ¹³C-NMR spectrum of Compound 1 in CD₃OD.

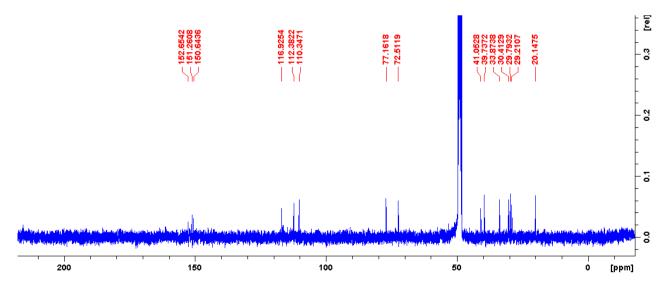


Figure S3. ¹H-¹H COSY spectrum of Compound **1** in CD₃OD.

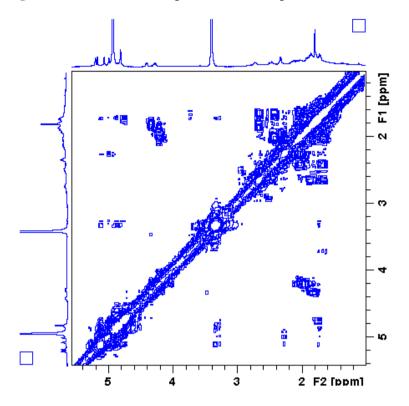


Figure S4. gHSQC spectrum of Compound 1 in CD₃OD.

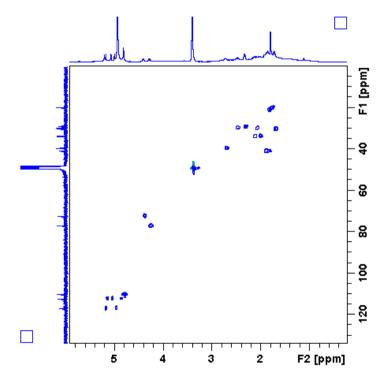


Figure S5. gHMBC spectrum of Compound 1 in CD₃OD.

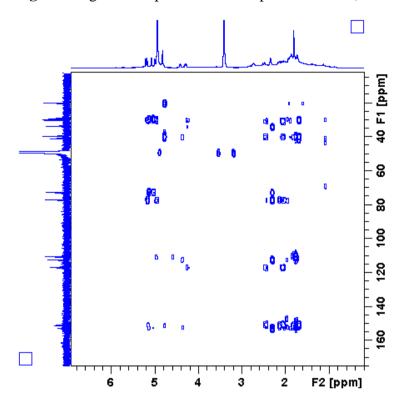


Figure S6. NOESY spectrum of Compound 1 in CD₃OD.

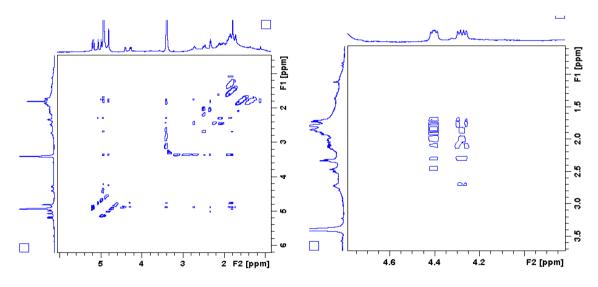


Figure S7. HRESIMS spectrum of Compound 1.

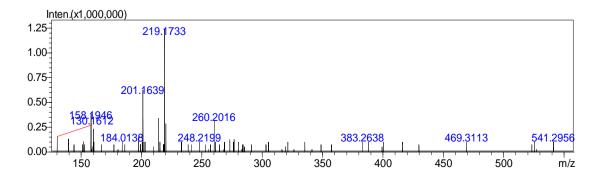


Figure S8. Absolute configuration determination for C-1 and C-5 in **1** by modified Mosher's ester method.

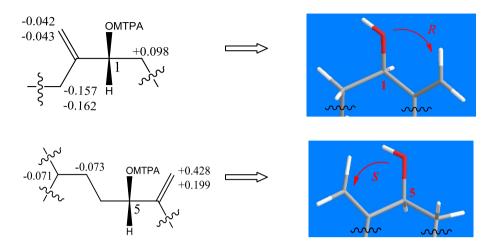


Figure S9. ¹H-NMR spectrum of Compound 2 in CD₃OD.

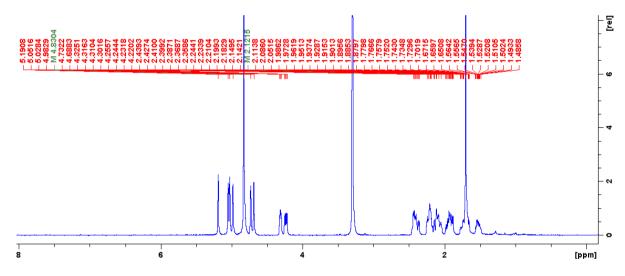


Figure S10. ¹³C-NMR spectrum of Compound 2 in CD₃OD.

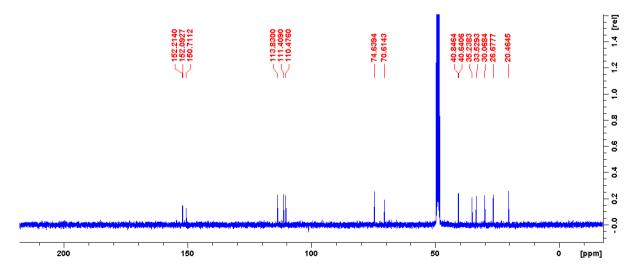


Figure S11. ¹H-¹H COSY spectrum of Compound **2** in CD₃OD.

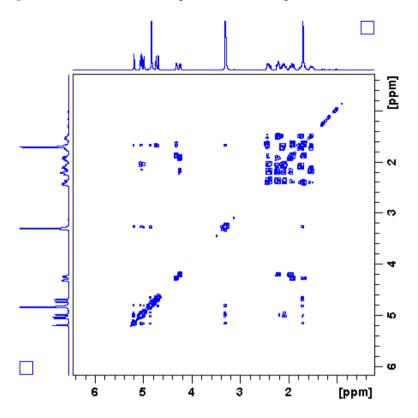


Figure S12. gHSQC spectrum of Compound 2 in CD₃OD.

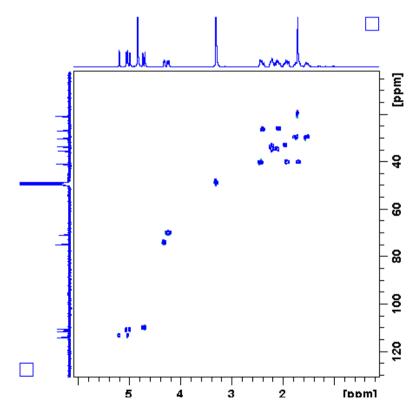


Figure S13. gHMBC spectrum of Compound 2 in CD₃OD.

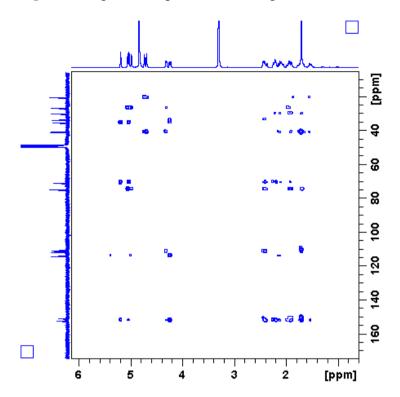


Figure S14. NOESY spectrum of Compound 2 in CD₃OD.

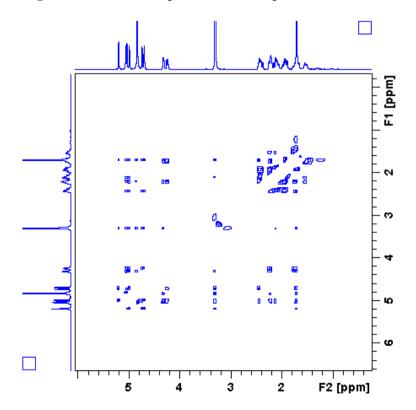


Figure S15. HRESIMS spectrum of Compound 2.

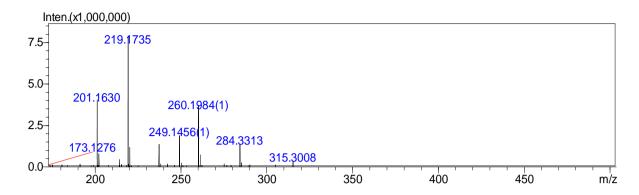


Figure S16. ¹H-NMR spectrum of Compound **3** in CD₃OD.

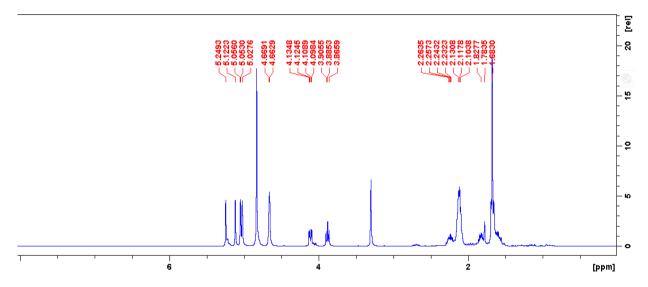


Figure S17. ¹H-NMR spectrum of Compound 3 in CDCl₃.

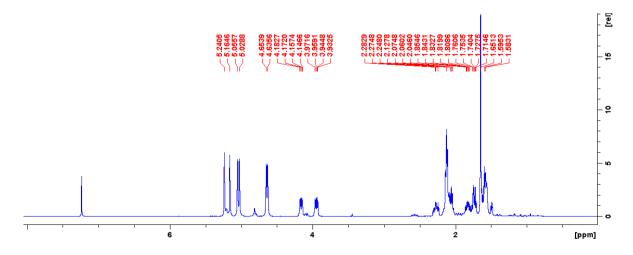


Figure S18. ¹³C-NMR spectrum of Compound 3 in CD₃OD.

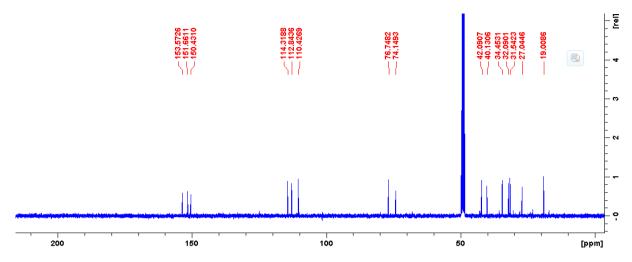


Figure S19. ¹H-¹H COSY spectrum of Compound **3** in CD₃OD.

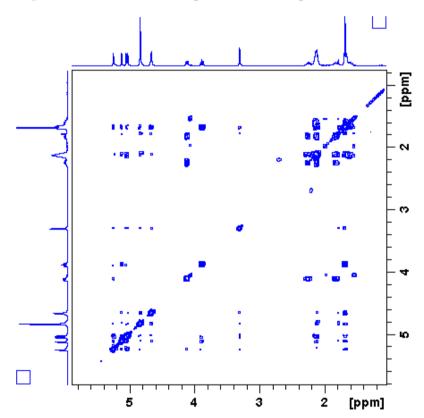


Figure S20. gHSQC spectrum of Compound 3 in CD₃OD.

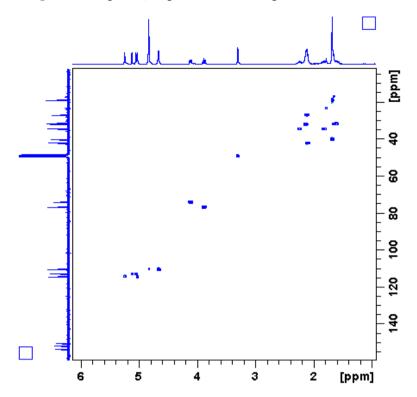


Figure S21. gHMBC spectrum of Compound 3 in CD₃OD.

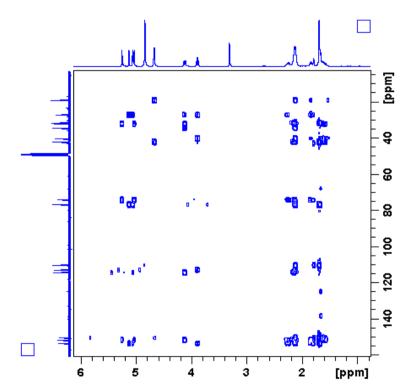


Figure S22. NOESY spectrum of Compound 3 in CD₃OD.

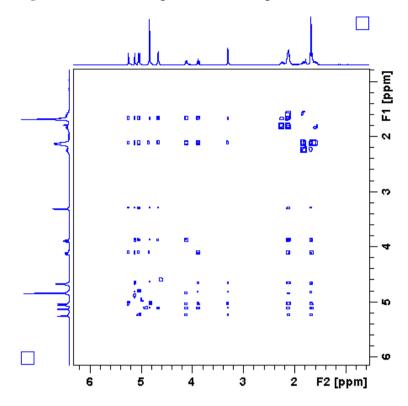


Figure S23. NOESY spectrum of Compound 3 in CDCl₃.

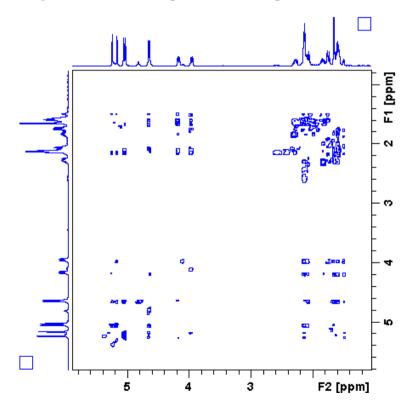


Figure S24. HRESIMS spectrum of Compound 3.

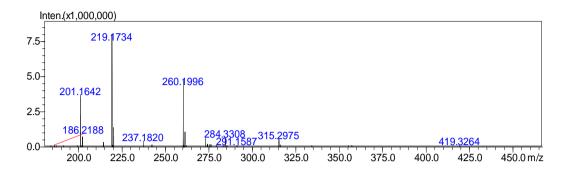


Figure S25. ¹H-NMR spectrum of Compound **4** in CD₃OD.

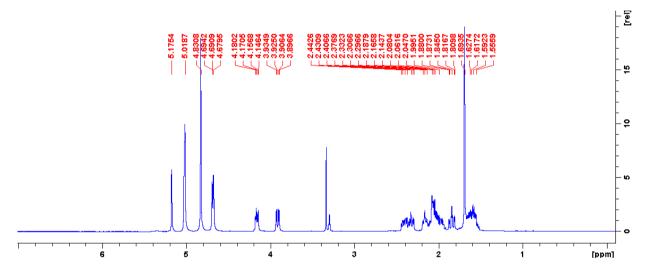


Figure S26. ¹³C-NMR spectrum of Compound 4 in CD₃OD.

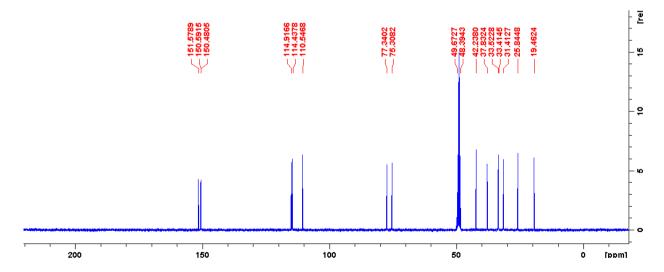


Figure S27. ¹H-¹H COSY spectrum of Compound **4** in CD₃OD.

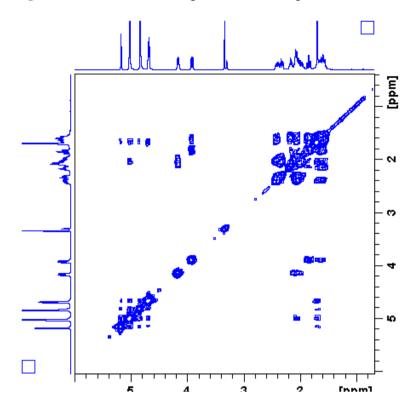


Figure S28. gHSQC spectrum of Compound 4 in CD₃OD.

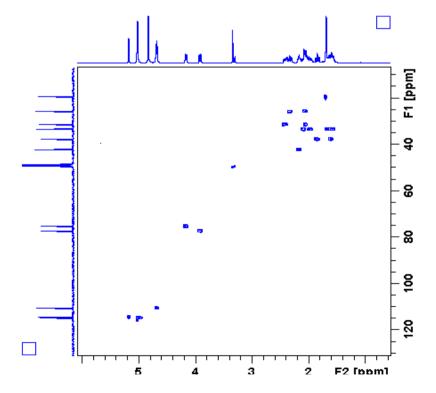


Figure S29. gHMBC spectrum of Compound 4 in CD₃OD.

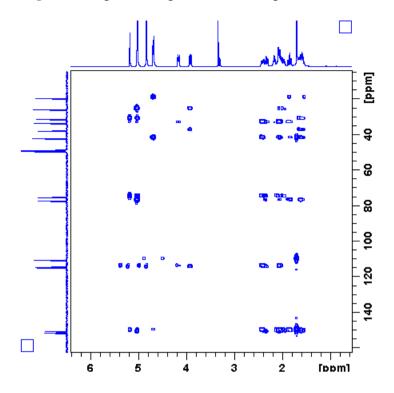


Figure S30. NOESY spectrum of Compound 4 in CD₃OD.

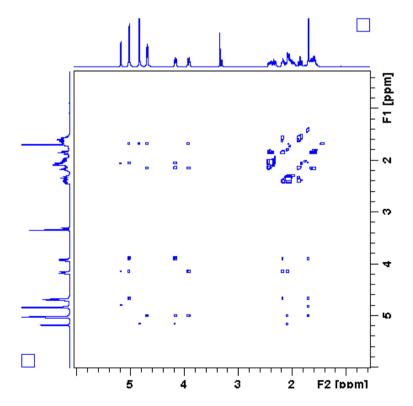


Figure S31. HRESIMS spectrum of Compound 4.

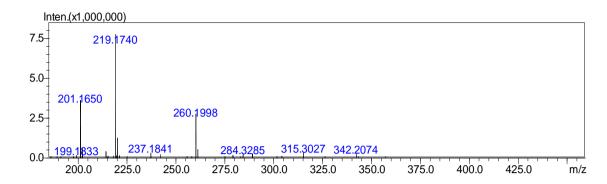


Figure S32. ¹H-NMR spectrum of Compound 5 in CDCl₃.

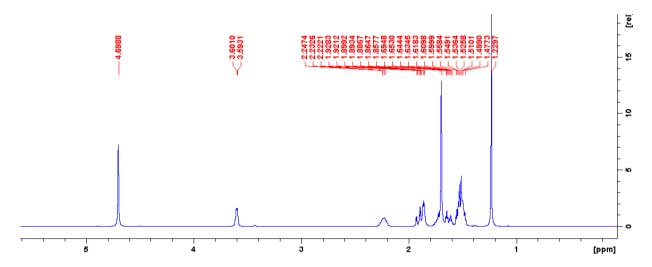


Figure S33. ¹³C-NMR spectrum of Compound 5 in CDCl₃.

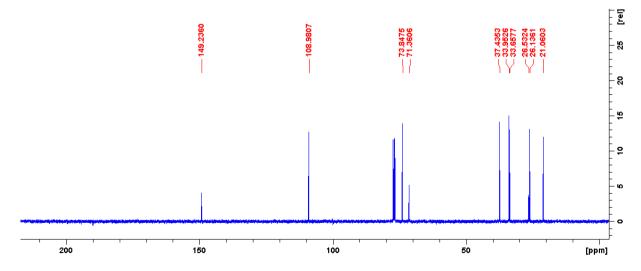


Figure S34. ¹H-¹H COSY spectrum of Compound **5** in CDCl₃.

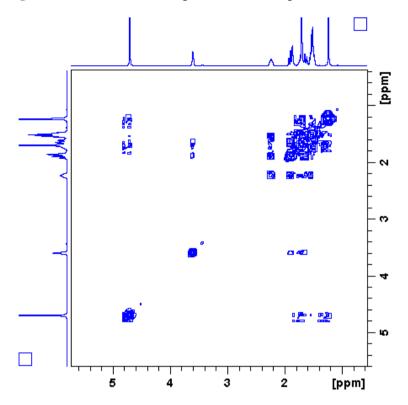


Figure S35. gHSQC spectrum of Compound 5 in CDCl₃.

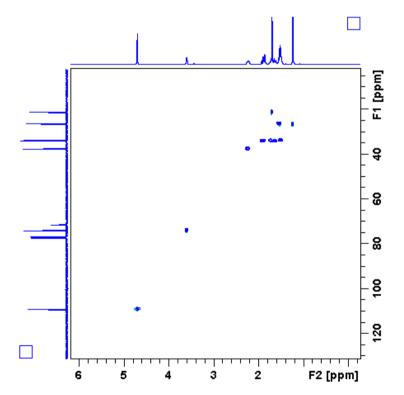


Figure S36. gHMBC spectrum of Compound 5 in CDCl₃.

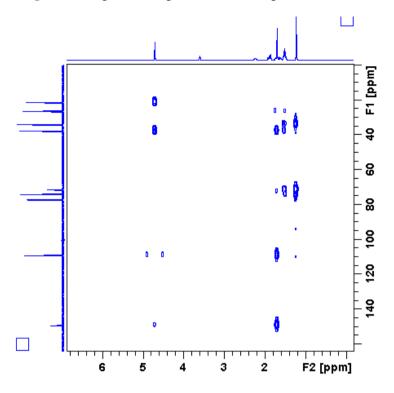


Figure S37. NOESY spectrum of Compound 5 in CDCl₃.

