

Supplementary material

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Figure S1. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **2**

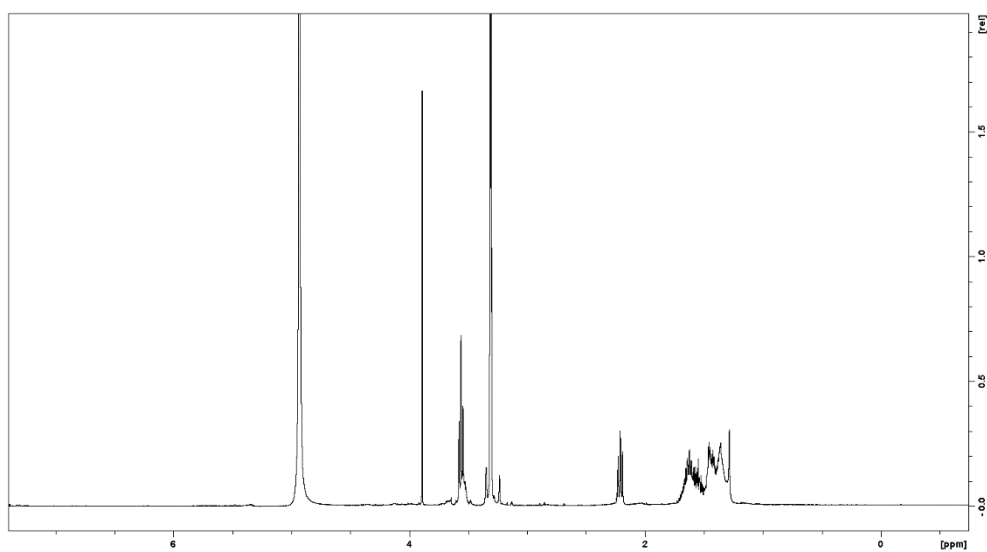


Figure S2. HR-ESIMS spectrum of compound **2**

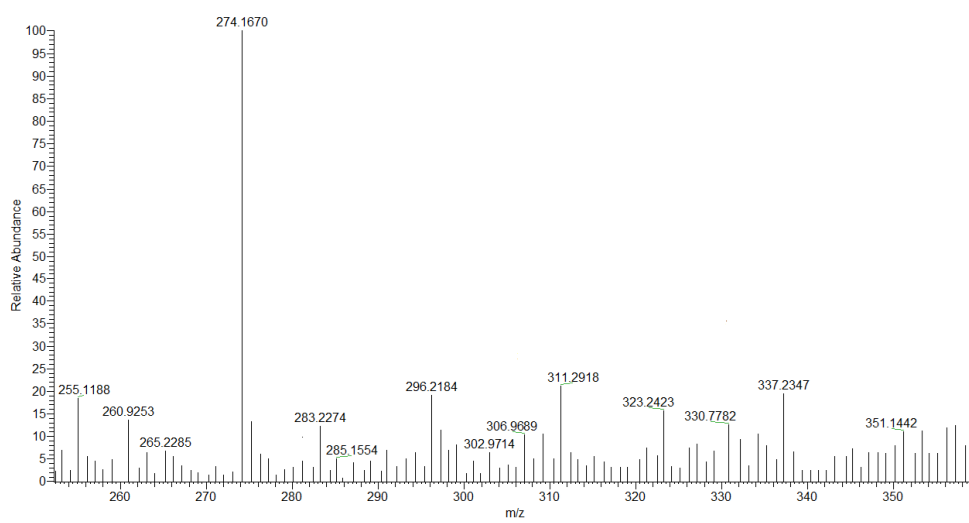


Figure S3. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **3**

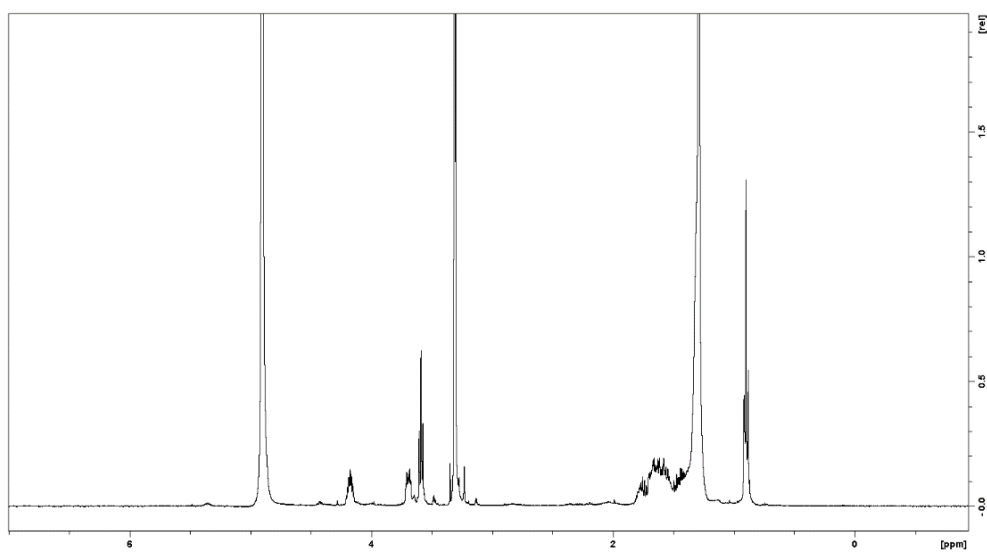


Figure S4. HR-ESIMS spectrum of compound **3**

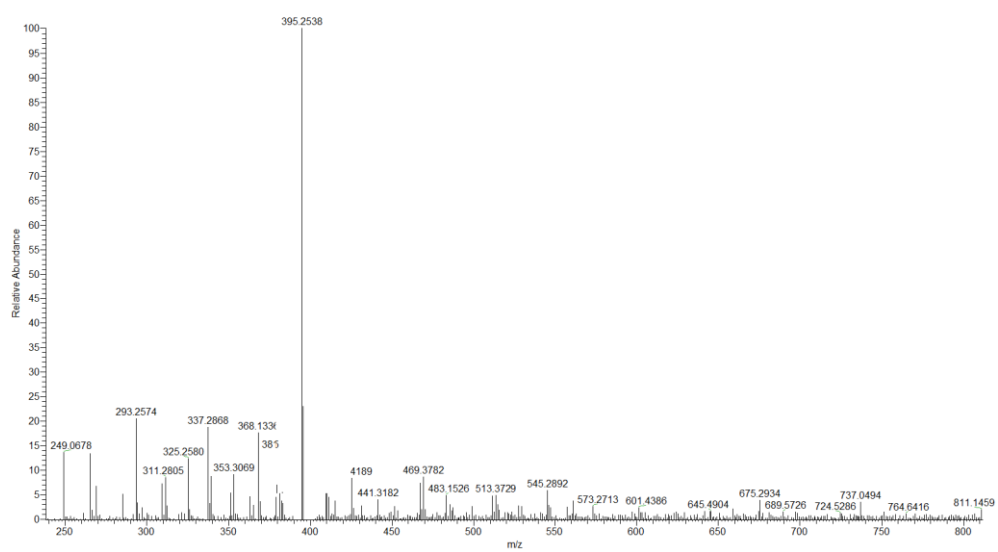


Figure S5. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **4a**

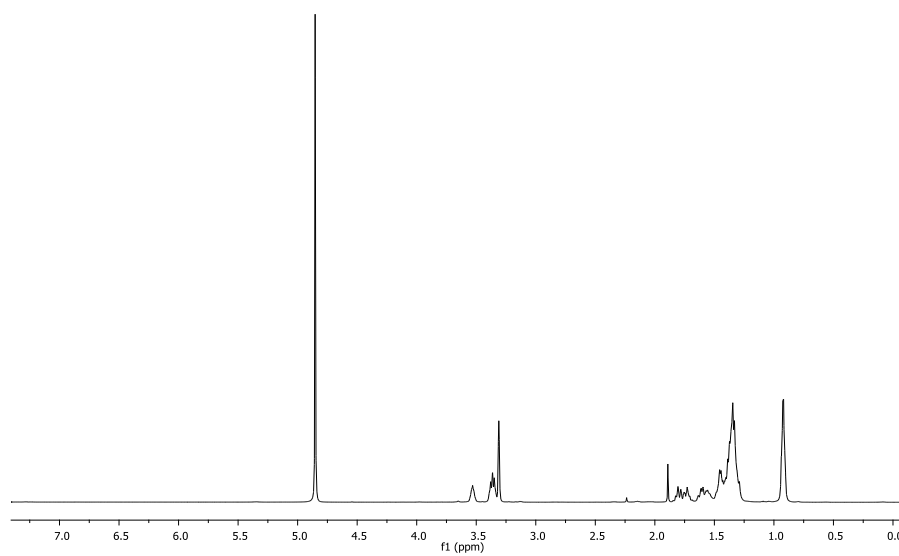


Figure S6. HR-ESIMS spectrum of compound **4a**

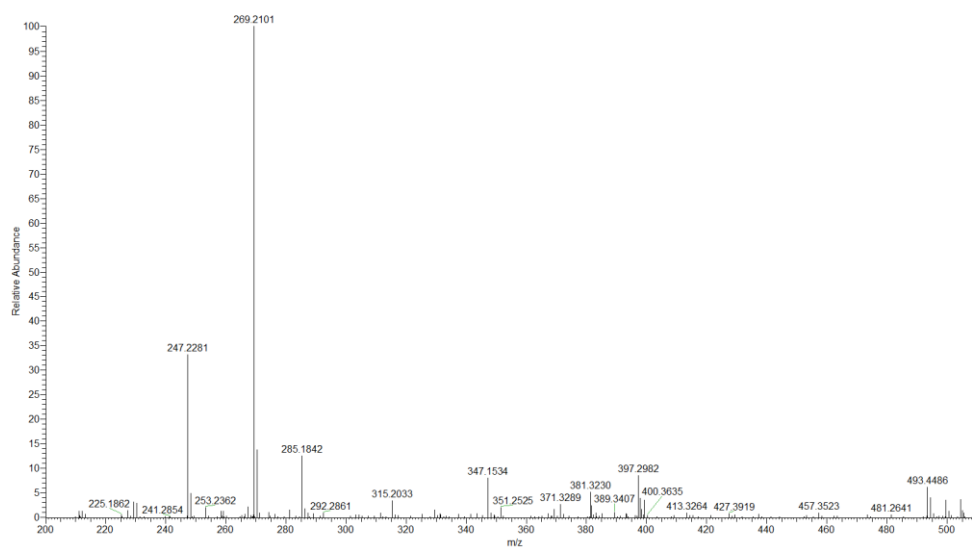


Figure S7. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **4b**

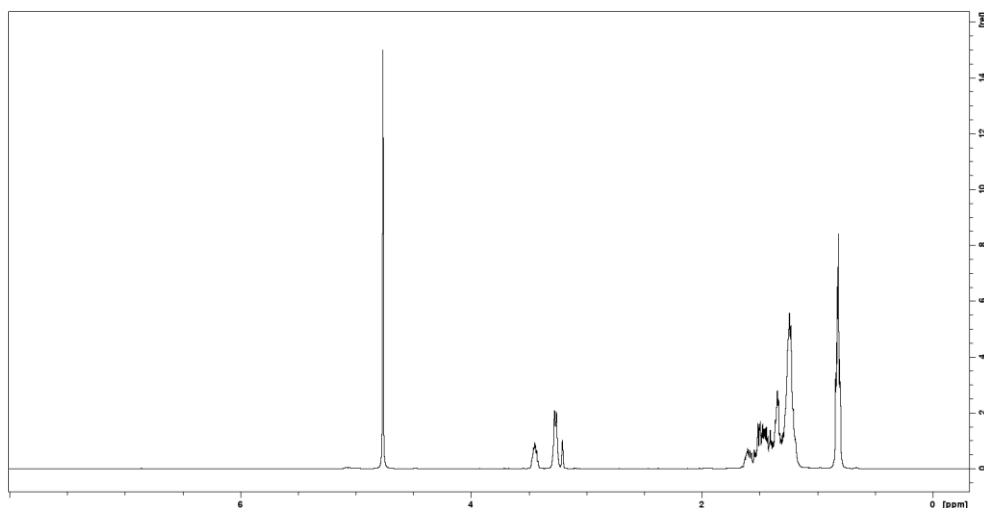


Figure S8. HR-ESIMS spectrum of compound **4b**

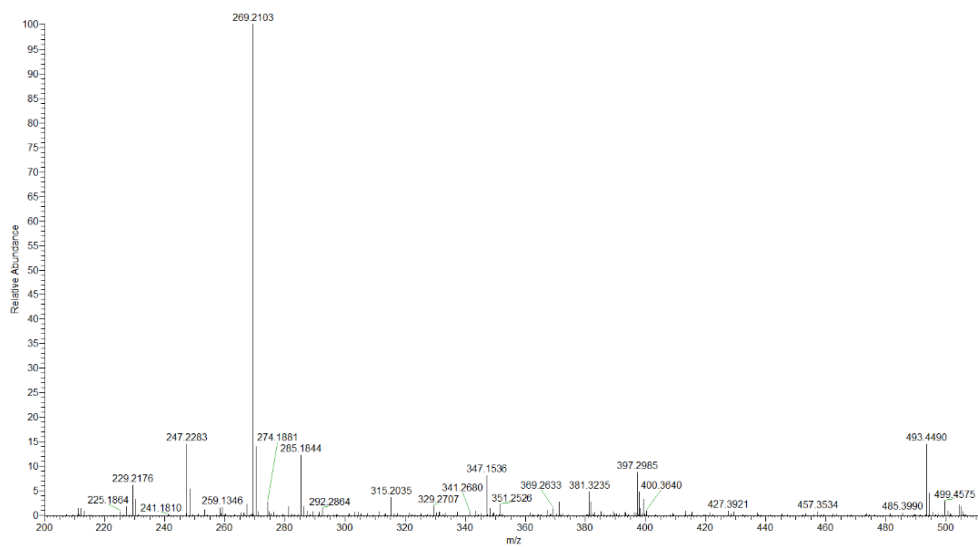


Figure S9. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **5a**

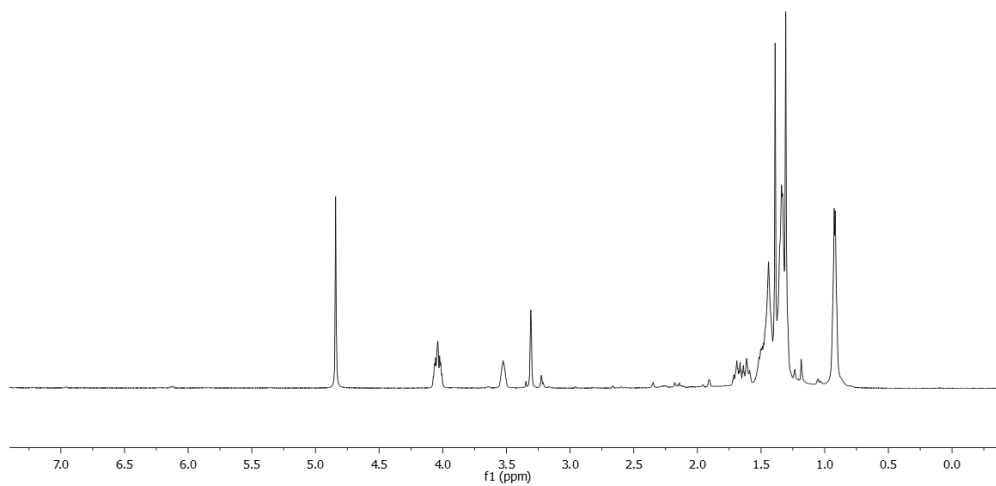


Figure S10. HR-ESIMS spectrum of compound **5a**

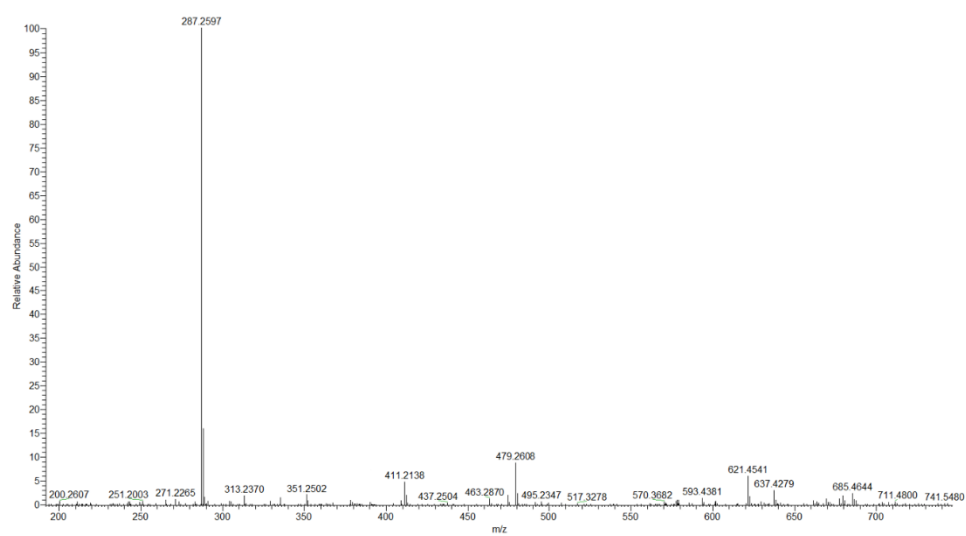


Figure S11. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **5b**

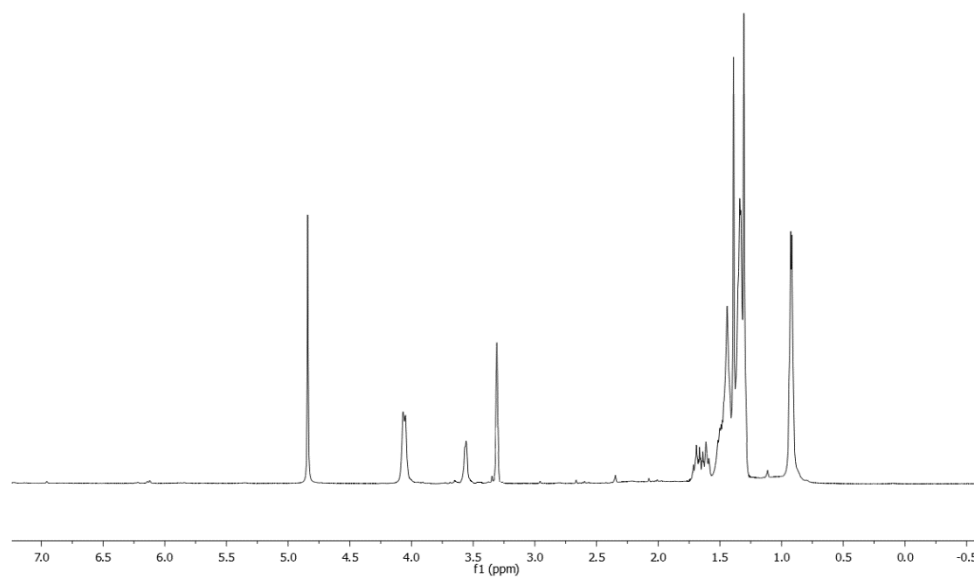


Figure S12. HR-ESIMS spectrum of compound **5b**

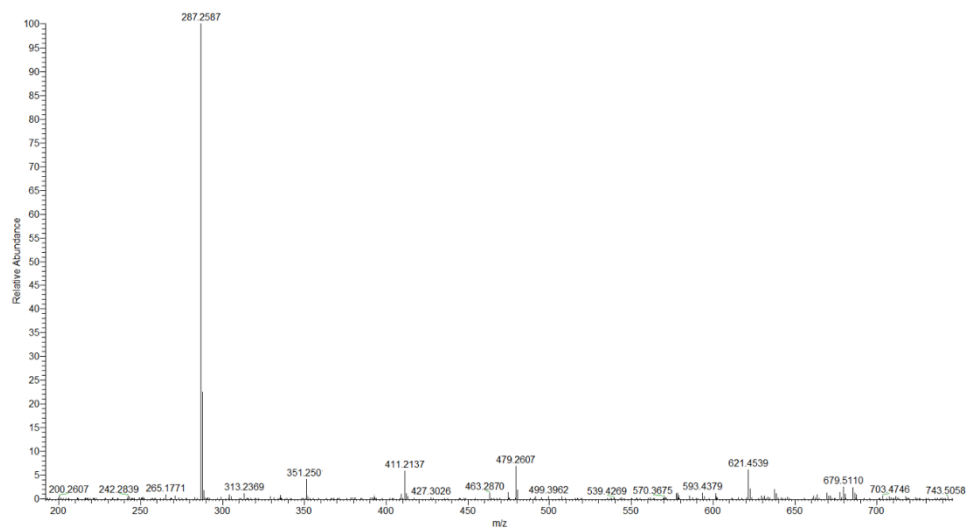


Figure S13.HR-ESIMS spectrum of compound **6a**

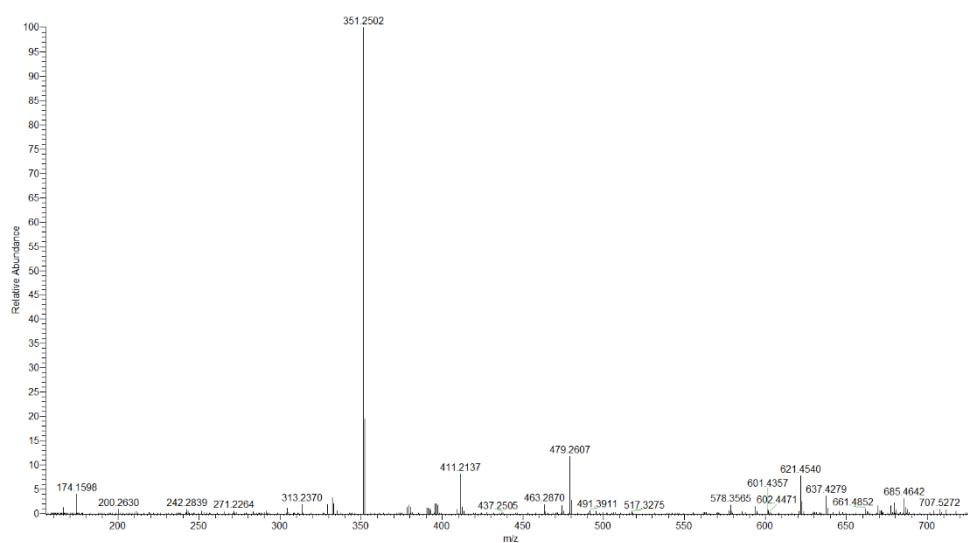


Figure S14.HR-ESIMS spectrum of compound **6b**

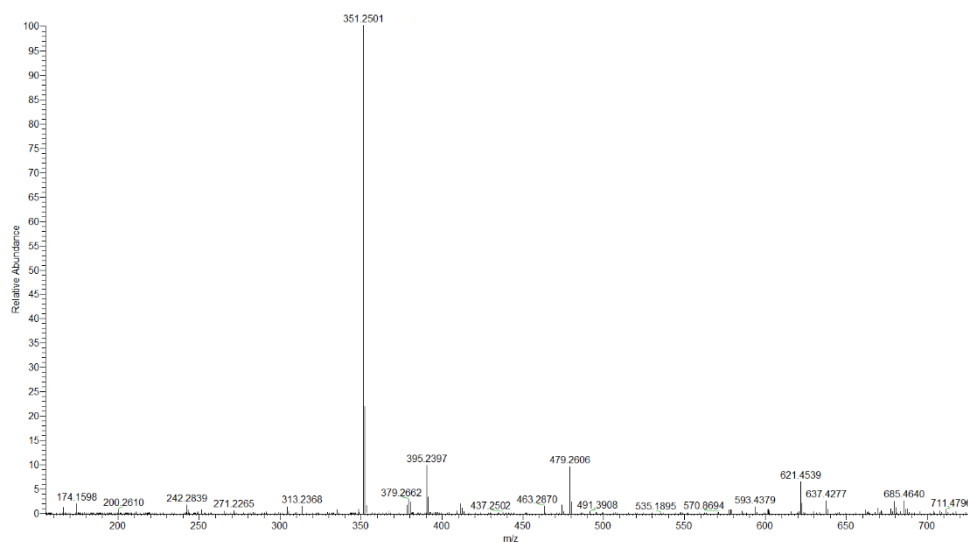


Figure S15. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **7a**

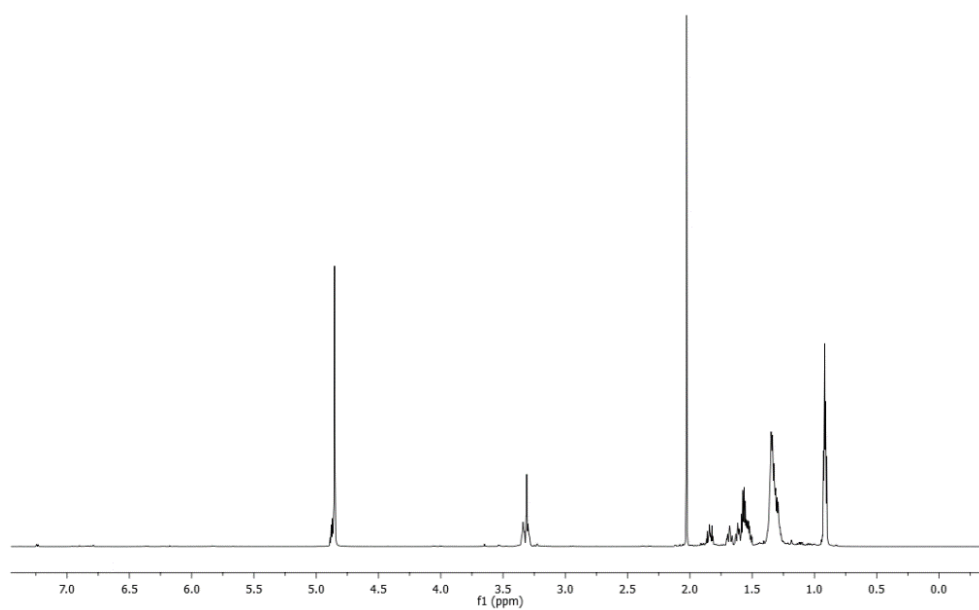


Figure S16. ^{13}C NMR spectrum in CD_3OD (175 MHz) of compound **7a**

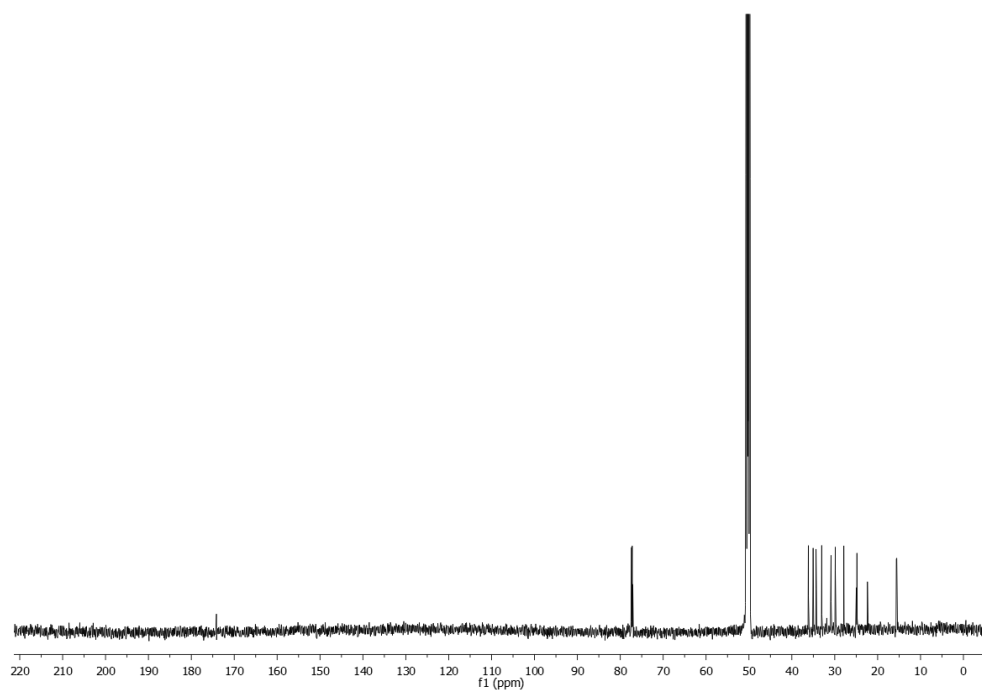


Figure S17.HR-ESIMS spectrum of compound **7a**

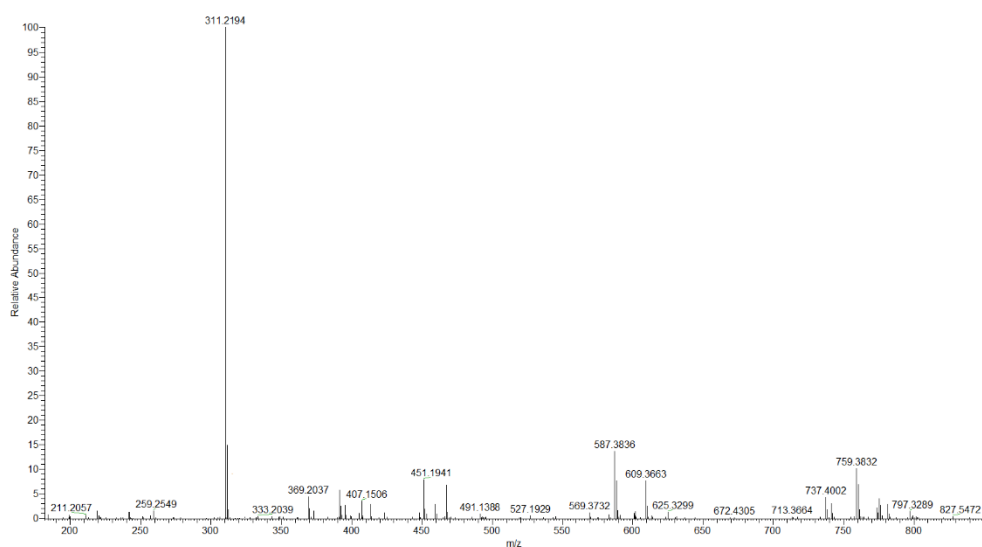


Figure S18. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **7b**

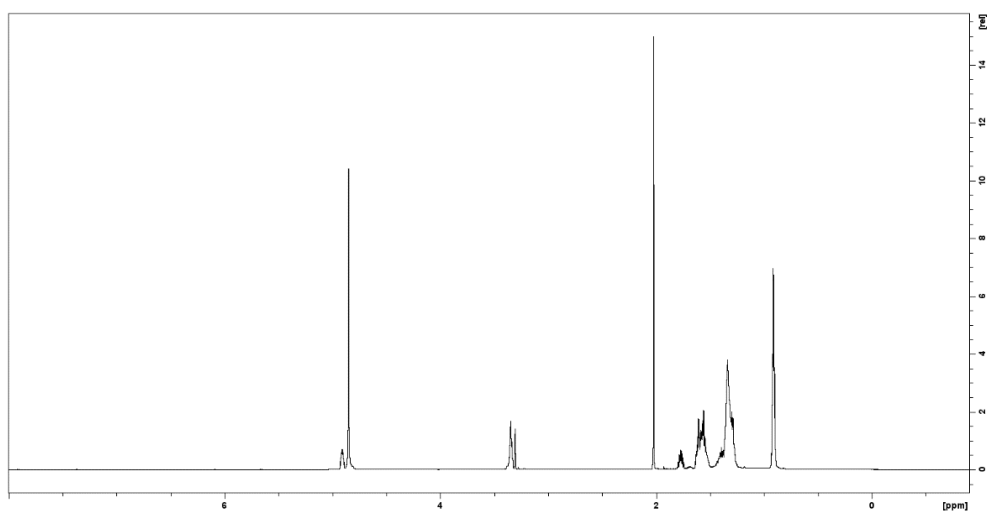


Figure S19. ^{13}C NMR spectrum in CD_3OD (175 MHz) of compound **7b**

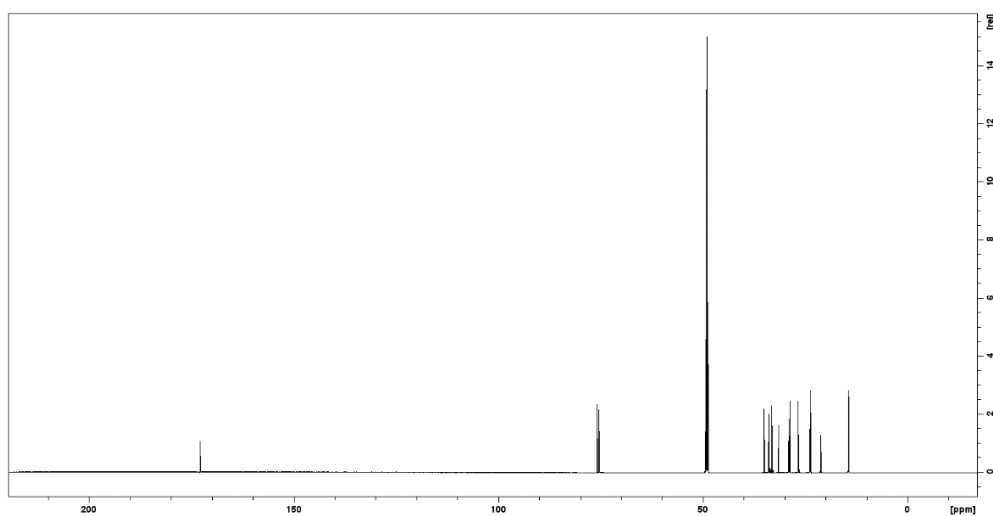


Figure S20. HR-ESIMS spectrum of compound **7b**

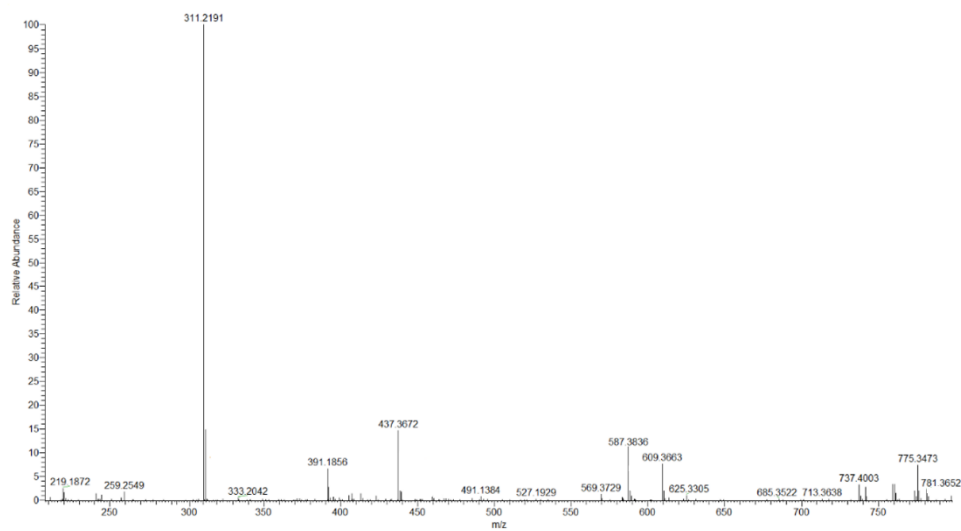


Figure S21. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **8a**

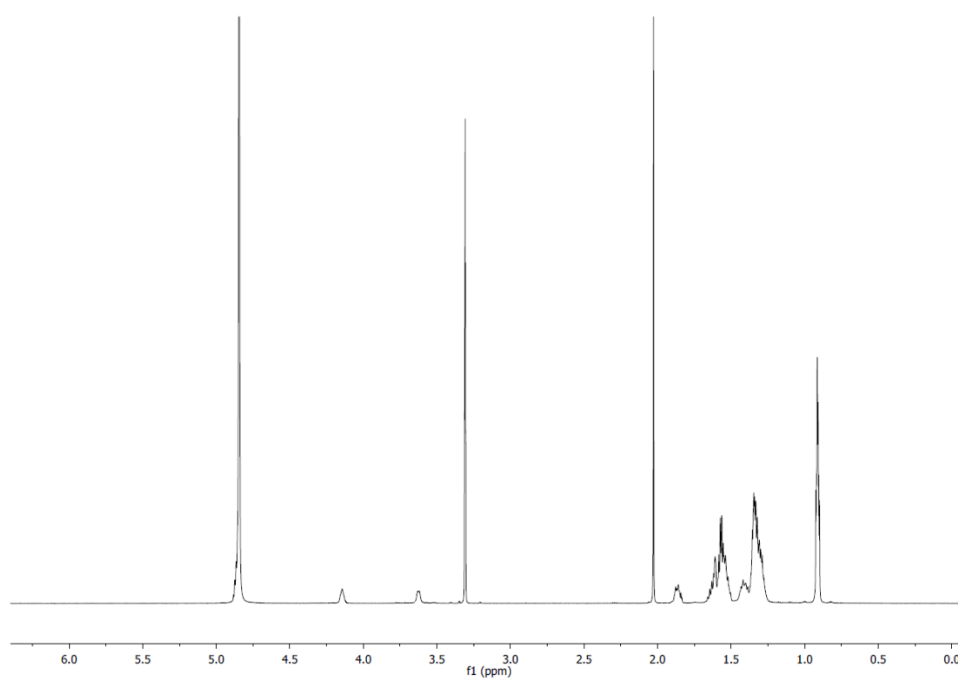


Figure S22. ^1H - ^1H COSY spectrum in CD_3OD (700 MHz) of compound **8a**

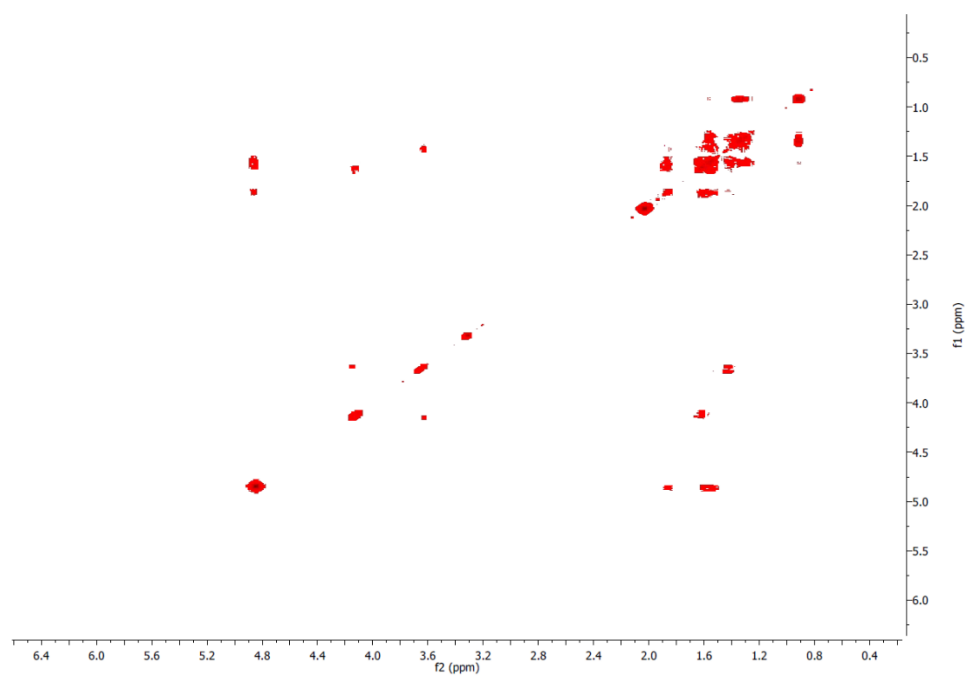


Figure S23.HR-ESIMS spectrum of compound **8a**

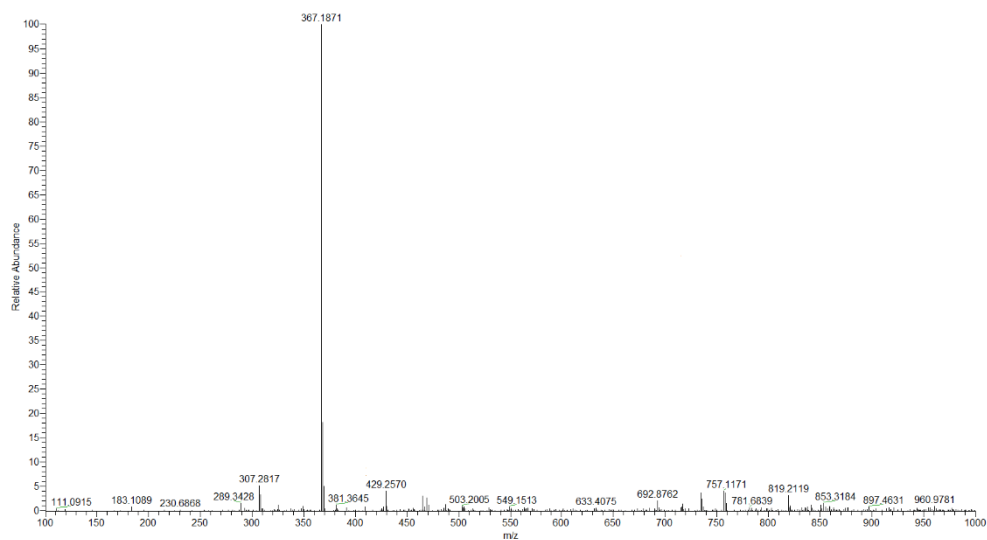


Figure S24. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **9a**

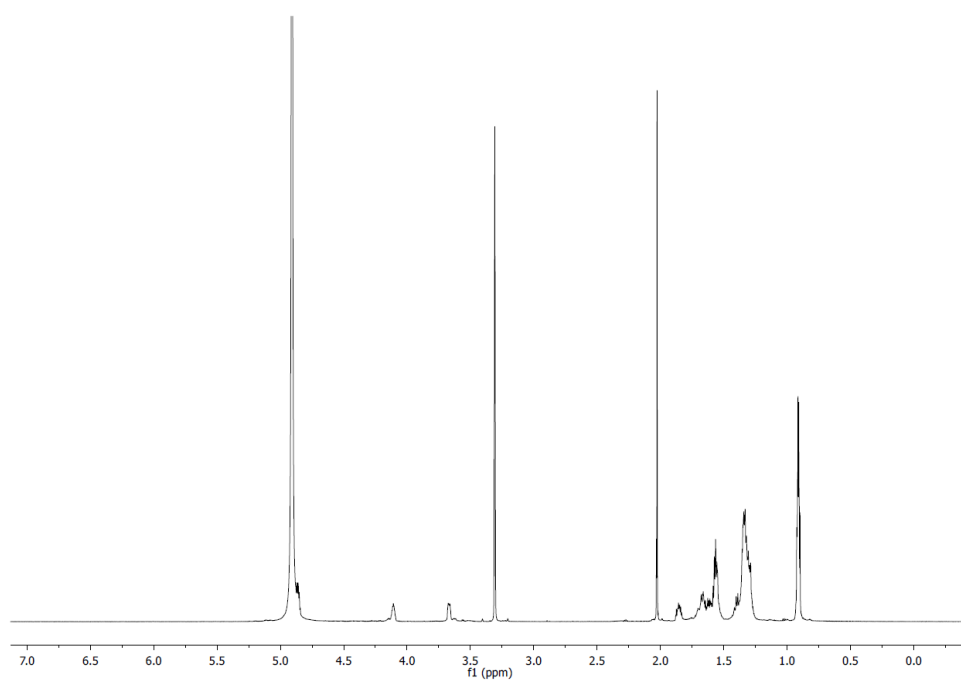


Figure S25. ^1H - ^1H COSY spectrum in CD_3OD (700 MHz) of compound **9a**

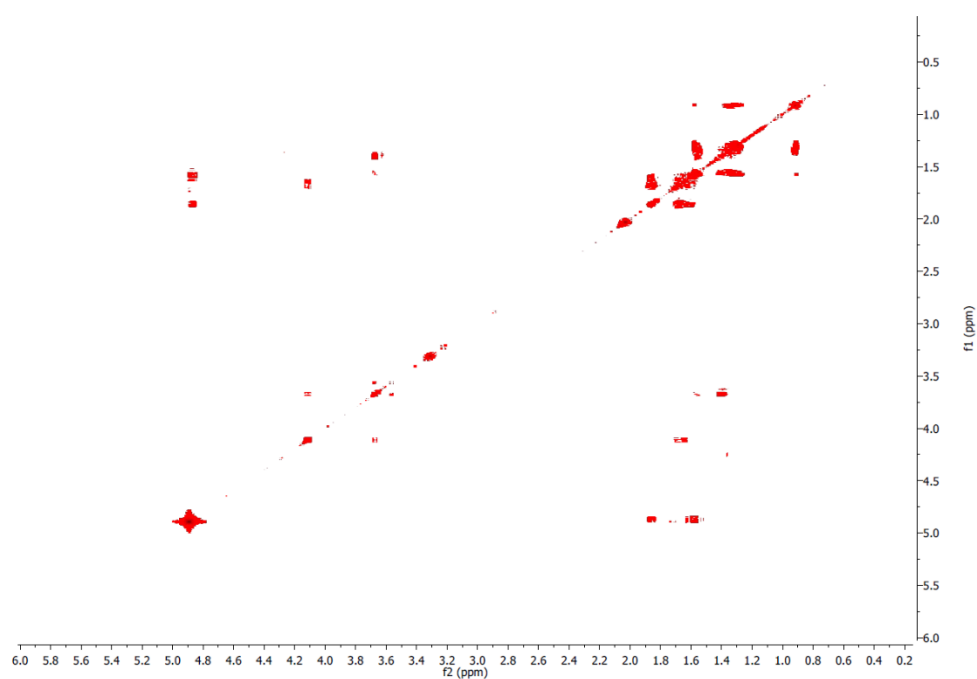


Figure S26. ^1H - ^{13}C HSQC spectrum in CD_3OD (700 MHz) of compound **9a**

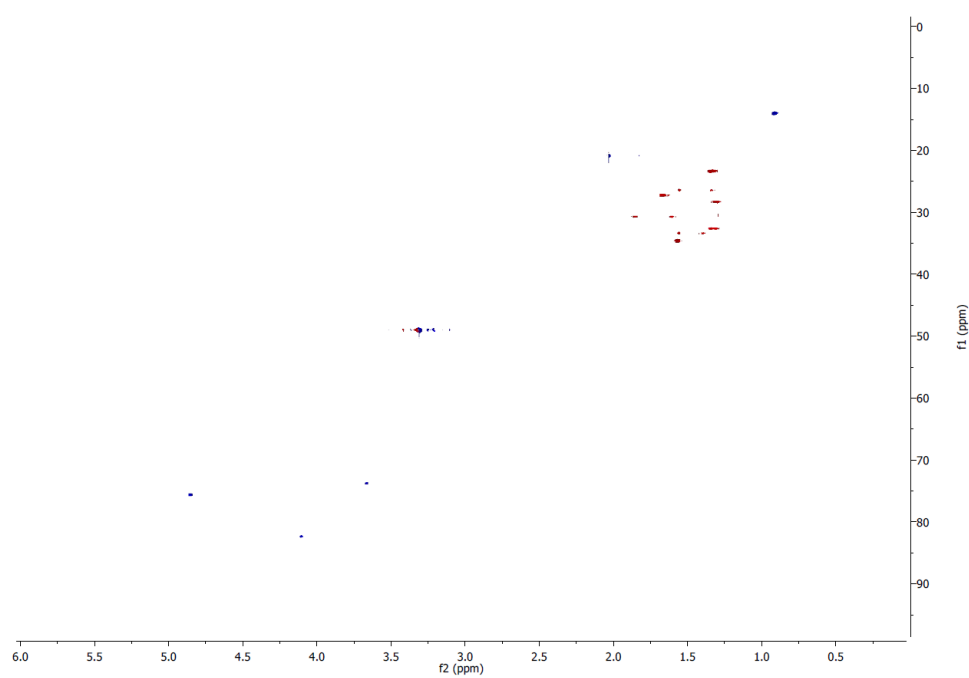


Figure S27.HR-ESIMS spectrum of compound **9a**

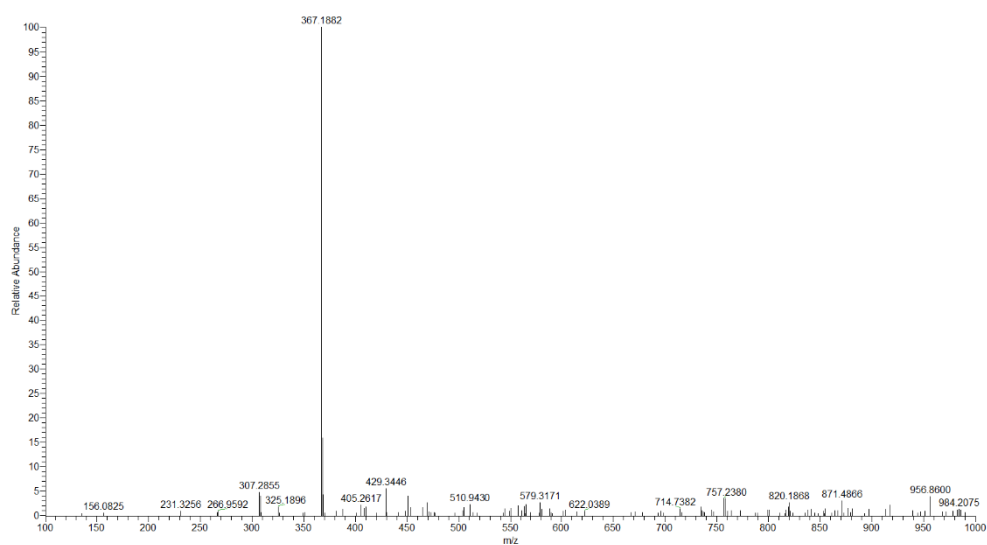


Figure S28. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **8b**

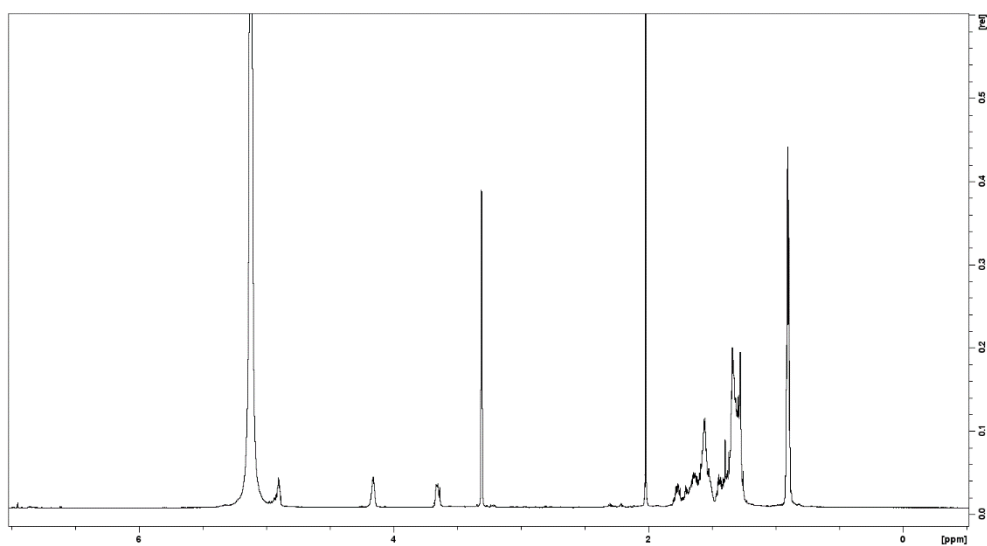


Figure S29. ^1H - ^1H COSY spectrum in CD_3OD (700 MHz) of compound **8b**

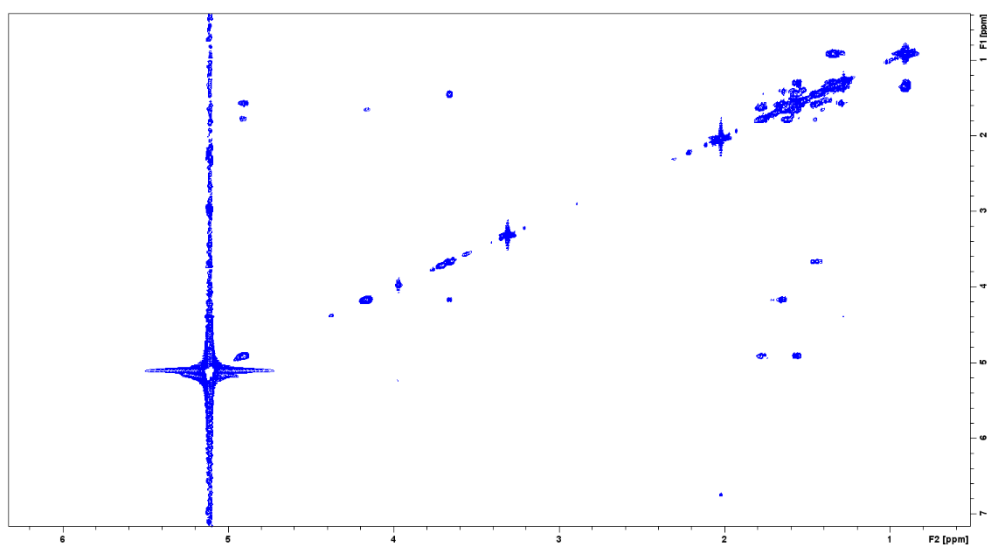


Figure S30. ^1H - ^{13}C HSQC spectrum in CD_3OD (700 MHz) of compound **8b**

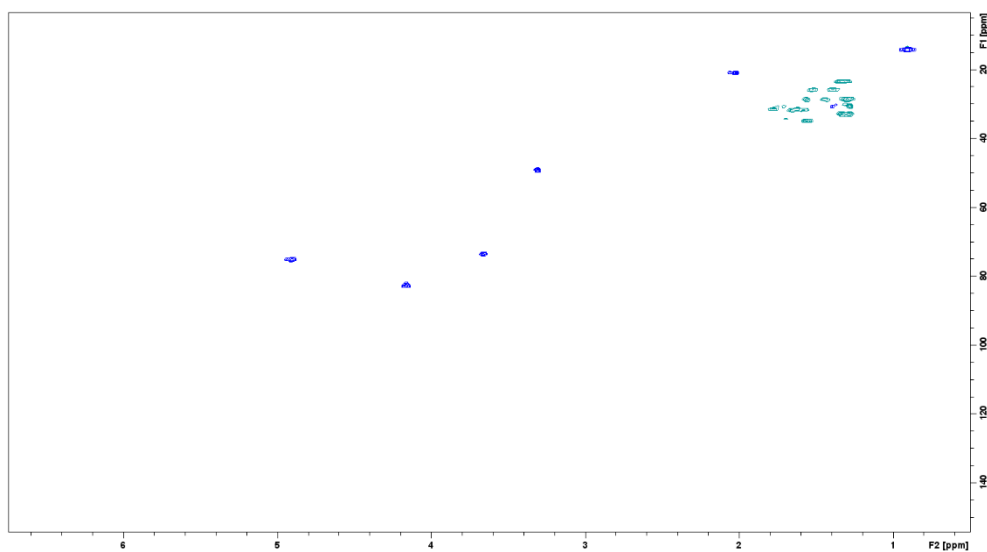


Figure S31.HR-ESIMS spectrum of compound **8b**

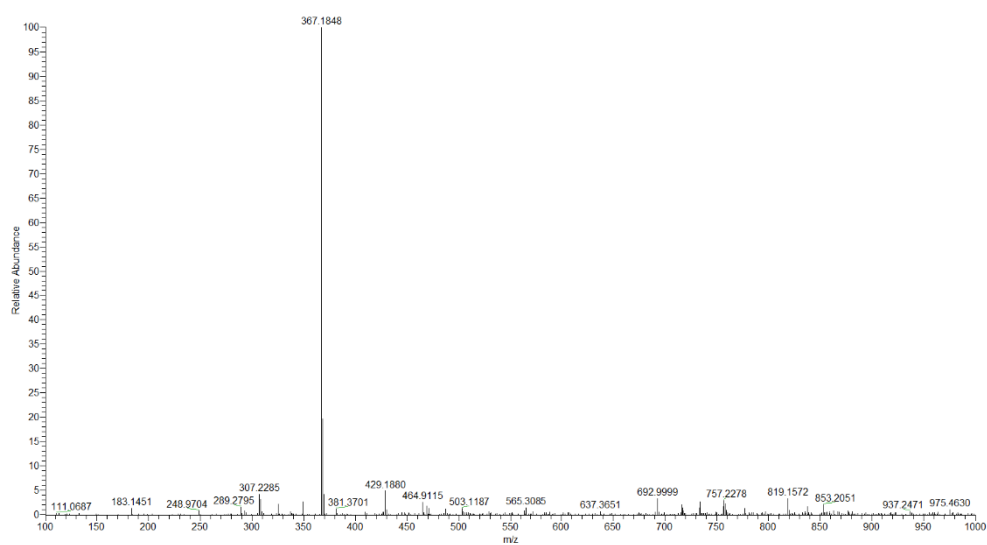


Figure S32. ^1H NMR spectrum in CD_3OD (700 MHz) of compound **9b**

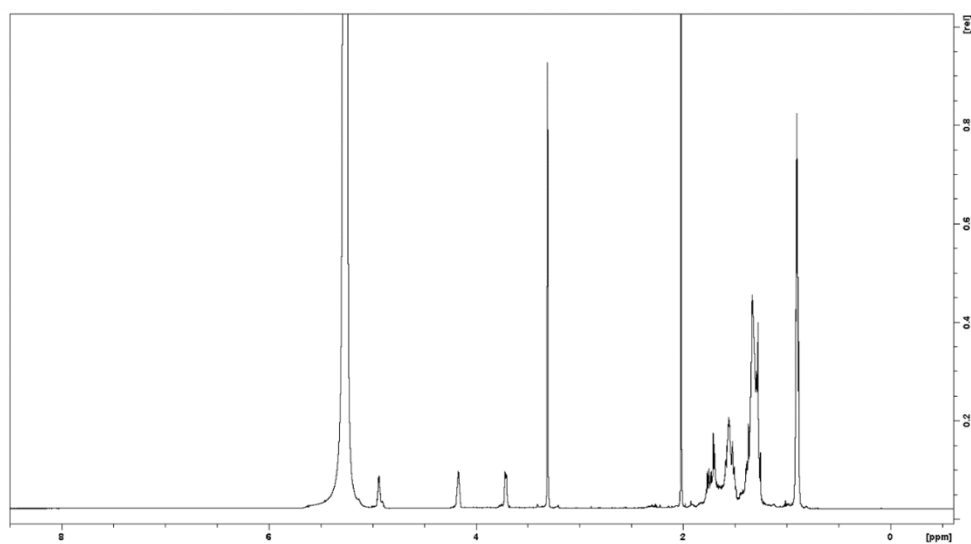


Figure S33. ^1H - ^1H COSY spectrum in CD_3OD (700 MHz) of compound **9b**

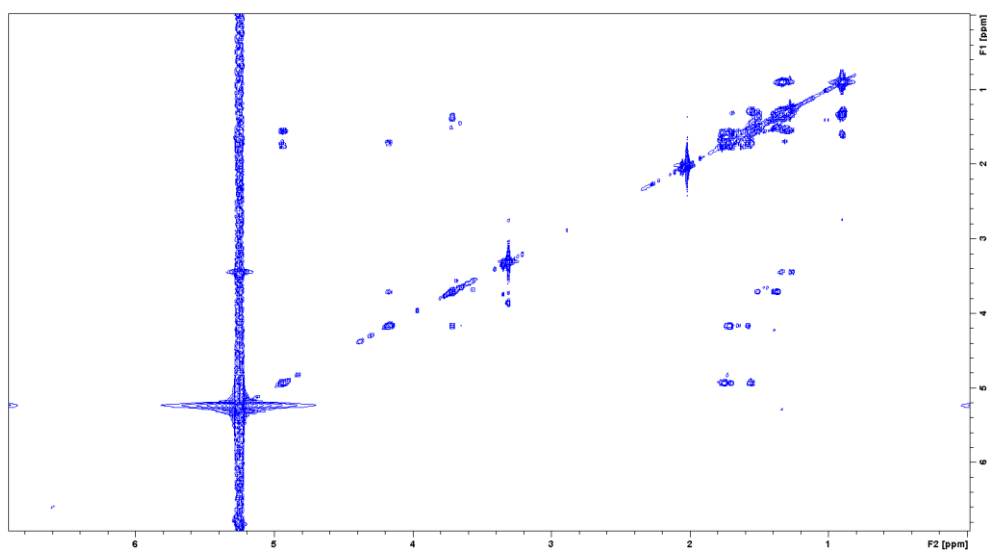


Figure S34. ^1H - ^1H TOCSY spectrum in CD_3OD (700 MHz) of compound **9b**

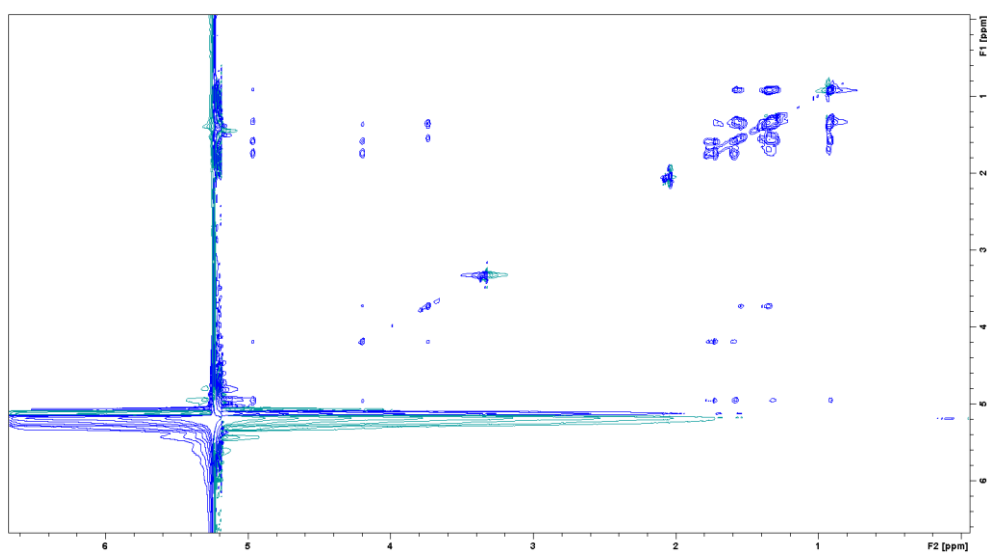


Figure S35. ^1H - ^{13}C HSQC spectrum in CD_3OD (700 MHz) of compound **9b**

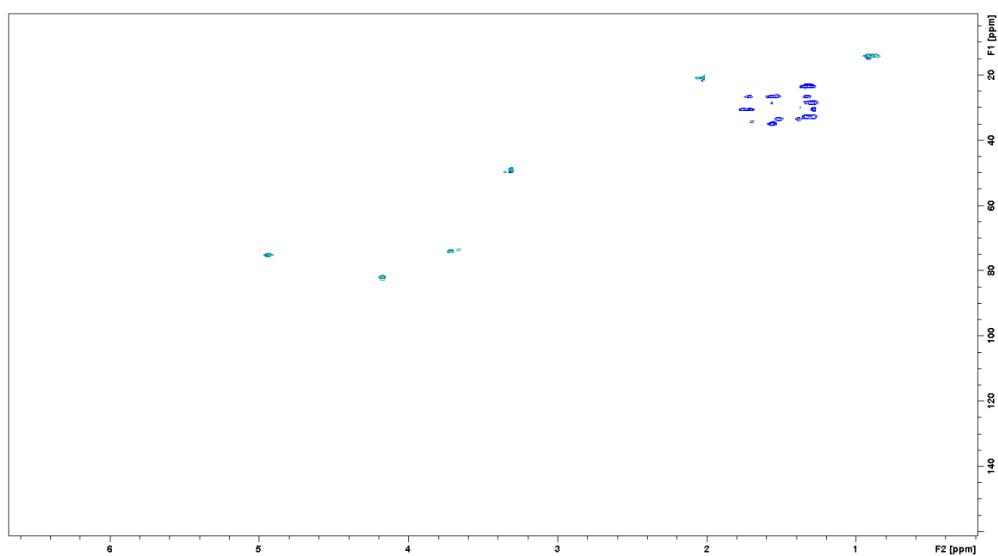


Figure S36. HR-ESIMS spectrum of compound **9b**

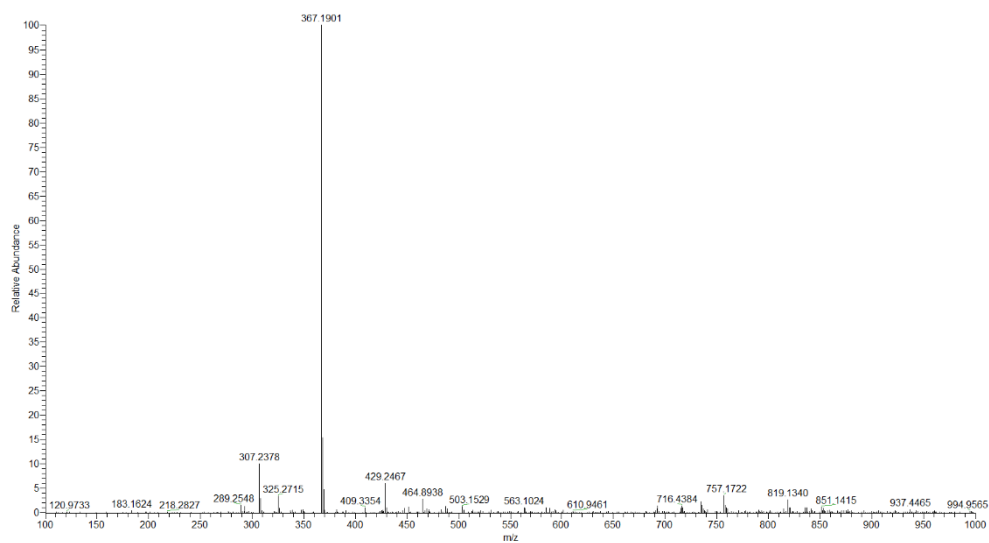


Table S1. Effects of compounds **2**, **3**, **4a**, **4b**, and **8a-9b** on human AR

Compound	% residual activity ^a
2	103 ± 4 (71 μM)
3	82 ± 3 (71 μM)
4a	97 ± 4 (43 μM)
4b	98 ± 3 (43 μM)
8a	87 ± 2 (71 μM)
8b	74 ± 8 (210 μM)
9a	86 ± 2 (107 μM)
9b	74 ± 6 (210 μM)

The residual activity is reported as the mean ± SD of at least three independent measurements. ^aThe maximal concentration of the compound used to evaluate residual activity is reported in parenthesis.