Supplementary Information

Hyalodendriellins A-F, new 14-membered resorcylic acid lactones from the endophytic fungus *Hyalodendriella* sp. Ponipodef12

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Contents

1. CD spectra of 1-6, 1a-1b, and 3a

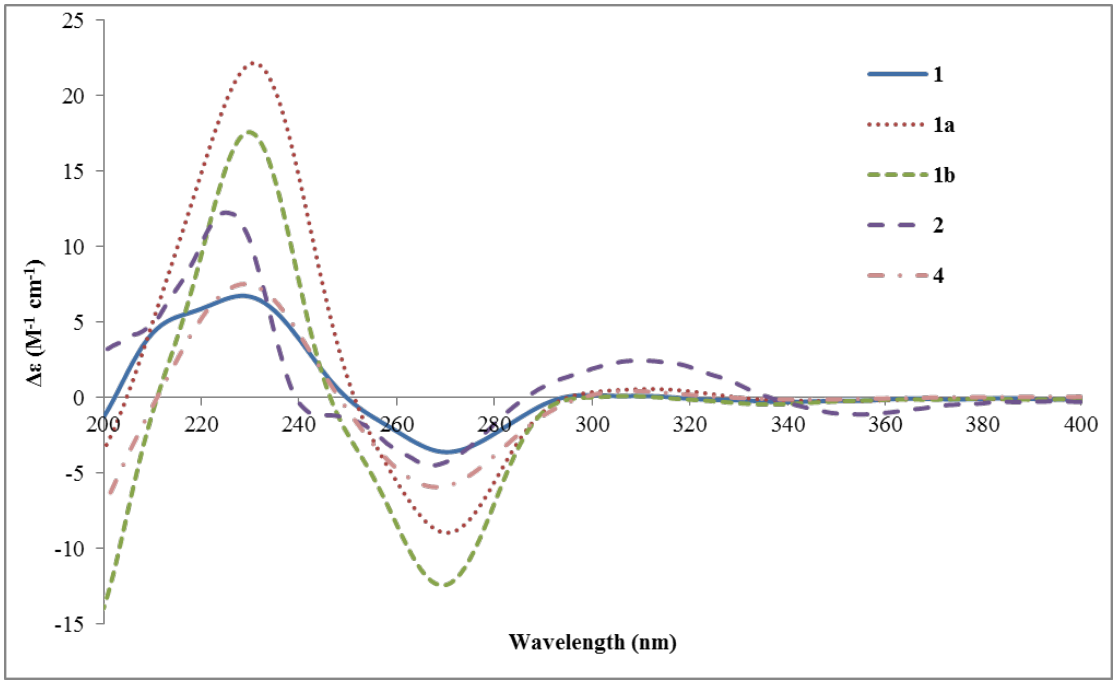


Figure S1. The CD spectra of **1**, **1a**, **1b**, **2**, and **4** (in MeOH).

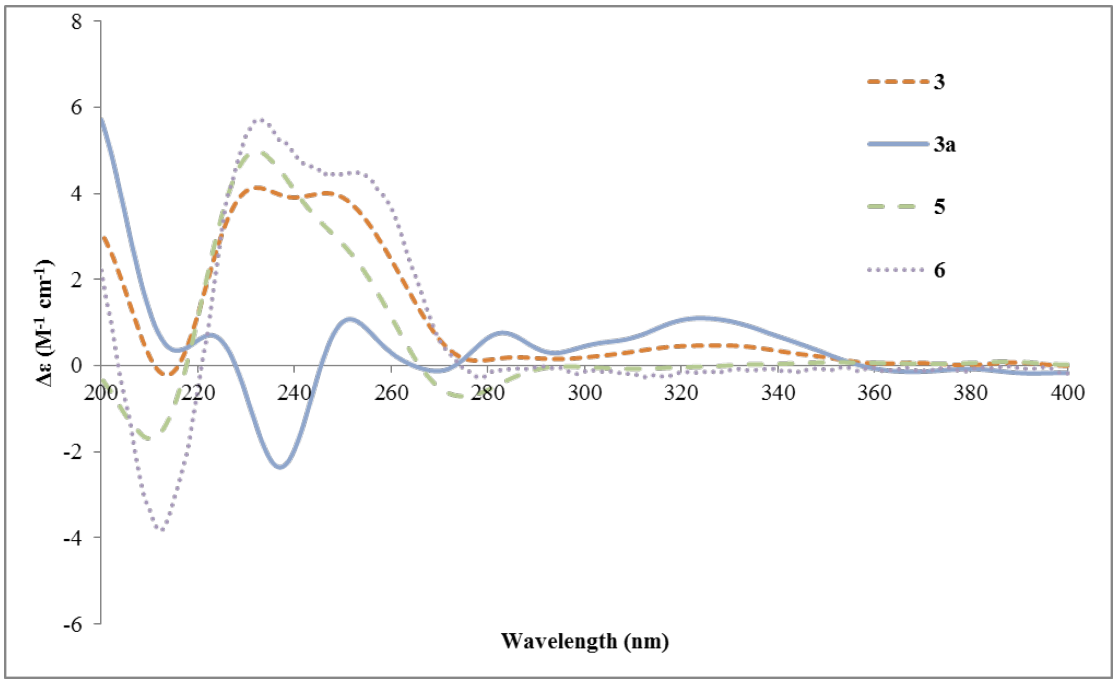
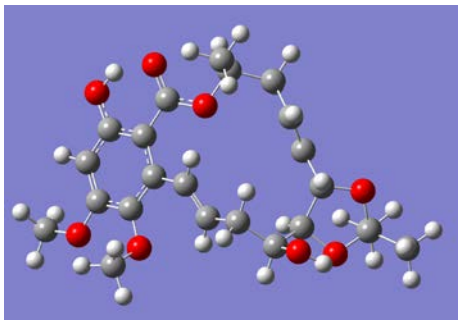
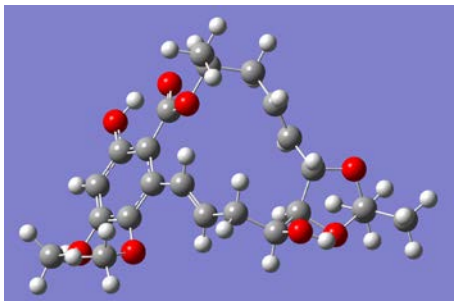


Figure S2. The CD spectra of **3**, **3a**, **5**, and **6** (in MeOH).

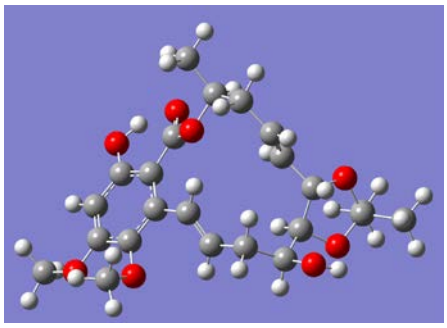
2. Computation Data for 1a, 2, 3b, and 4



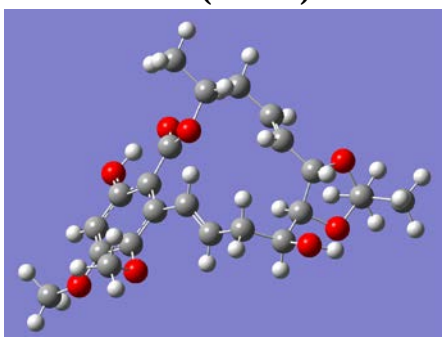
1a-1 (47.0%)



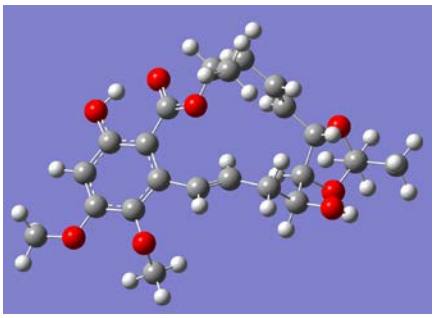
1a-2 (24.0%)



1a-3 (11.7%)



1a-4 (11.2%)



1a-5 (1.8%)

Figure S3. The stable conformers of (3*S*, 7*S*, 8*S*, 9*S*)-**1a** with populations greater than 1%.

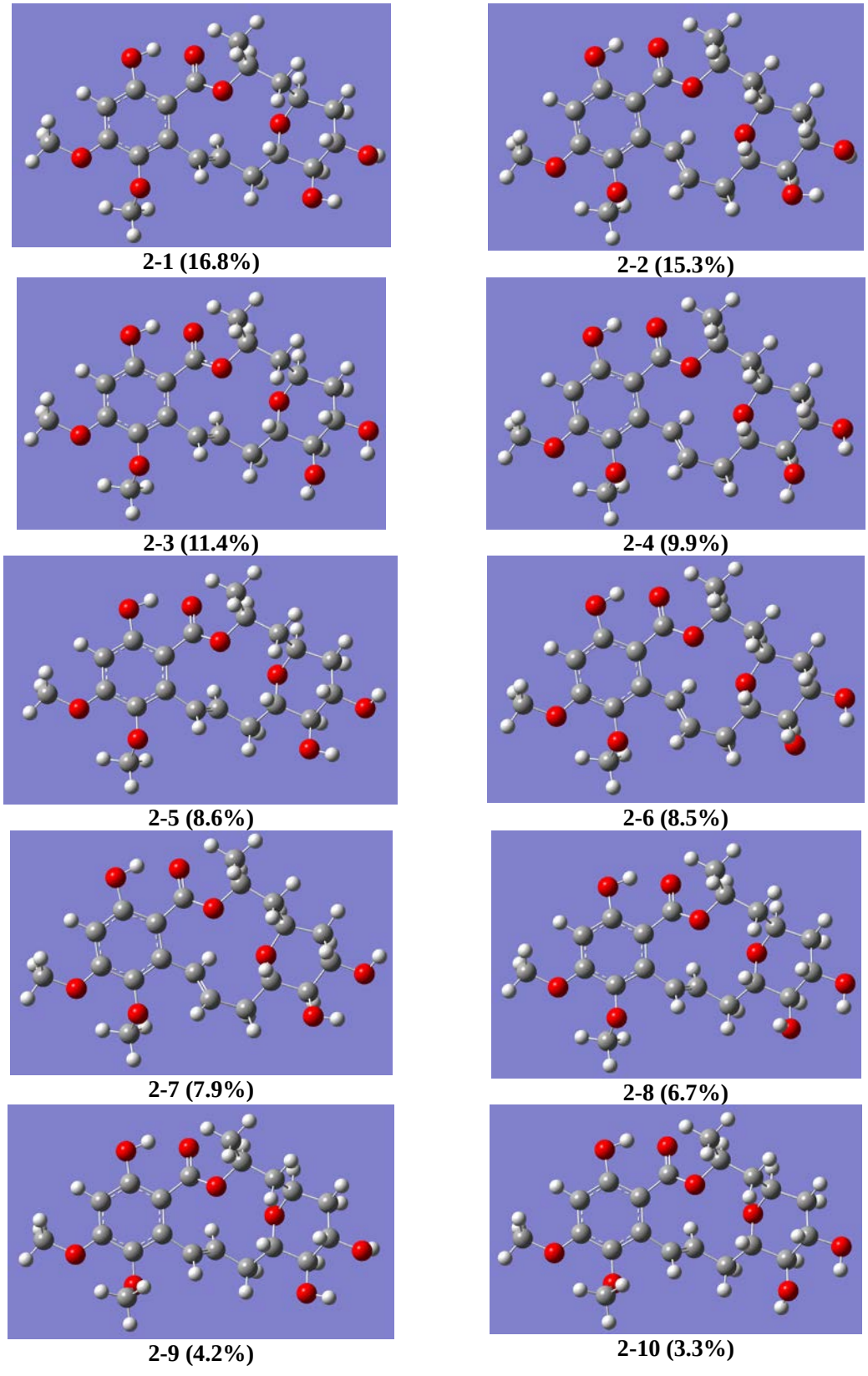
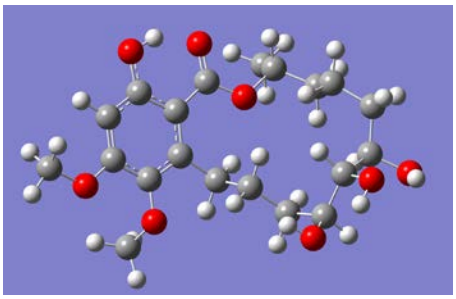
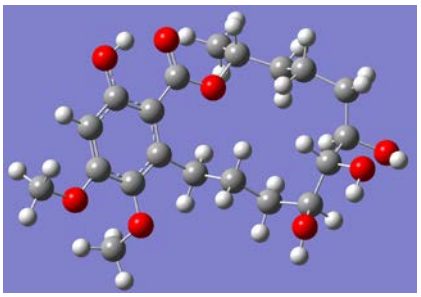


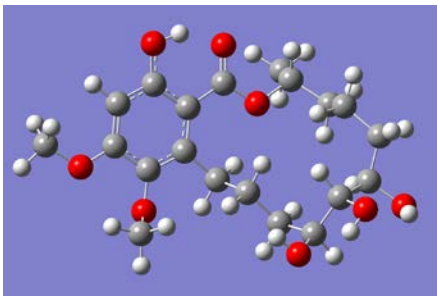
Figure S4. The stable conformers of (3*S*, 5*R*, 7*S*, 8*R*, 9*S*)-**2** with populations greater than 2%.



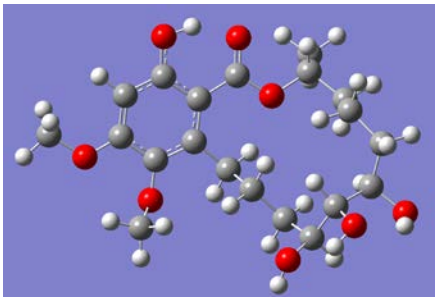
3b-1 (50.2%)



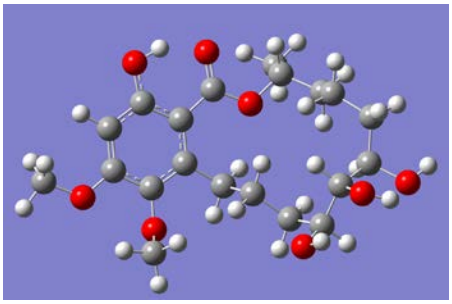
3b-2 (23.6%)



3b-3 (9.3%)

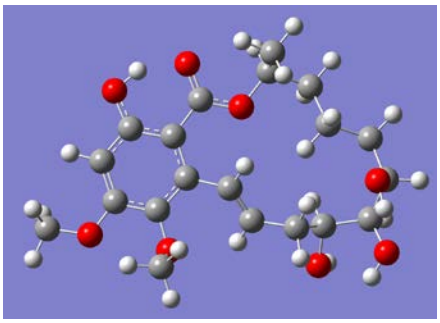


3b-4 (8.7%)

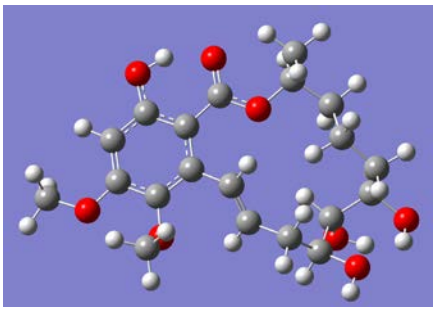


3b-5 (6.1%)

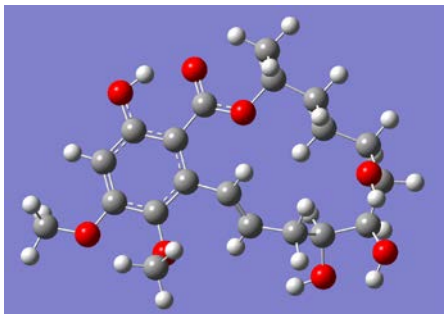
Figure S5. The stable conformers of (3*R*, 7*R*, 8*R*, 9*S*)-**3b** with populations greater than 1%.



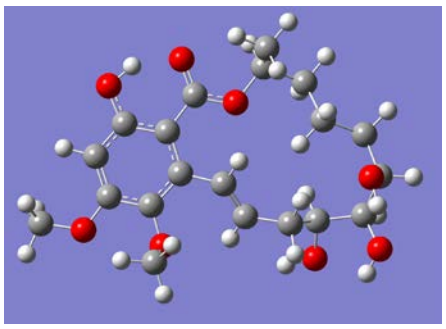
4-1 (27.2%)



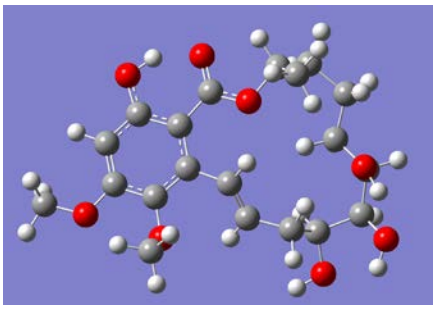
4-2 (23.5%)



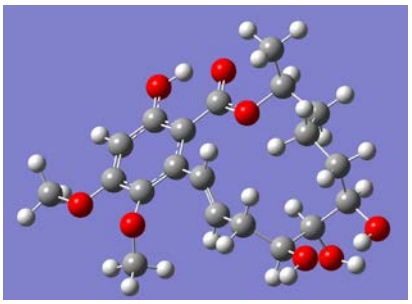
4-3 (20.1%)



4-4 (19.9 %)



4-5 (3.3%)



4-6 (2.0%)

Figure S6. The stable conformers of (3*S*, 7*R*, 8*R*, 9*S*)-**4** with populations greater than 1%.

3. (1D, 2D) NMR, IR, and HRESIMS spectra

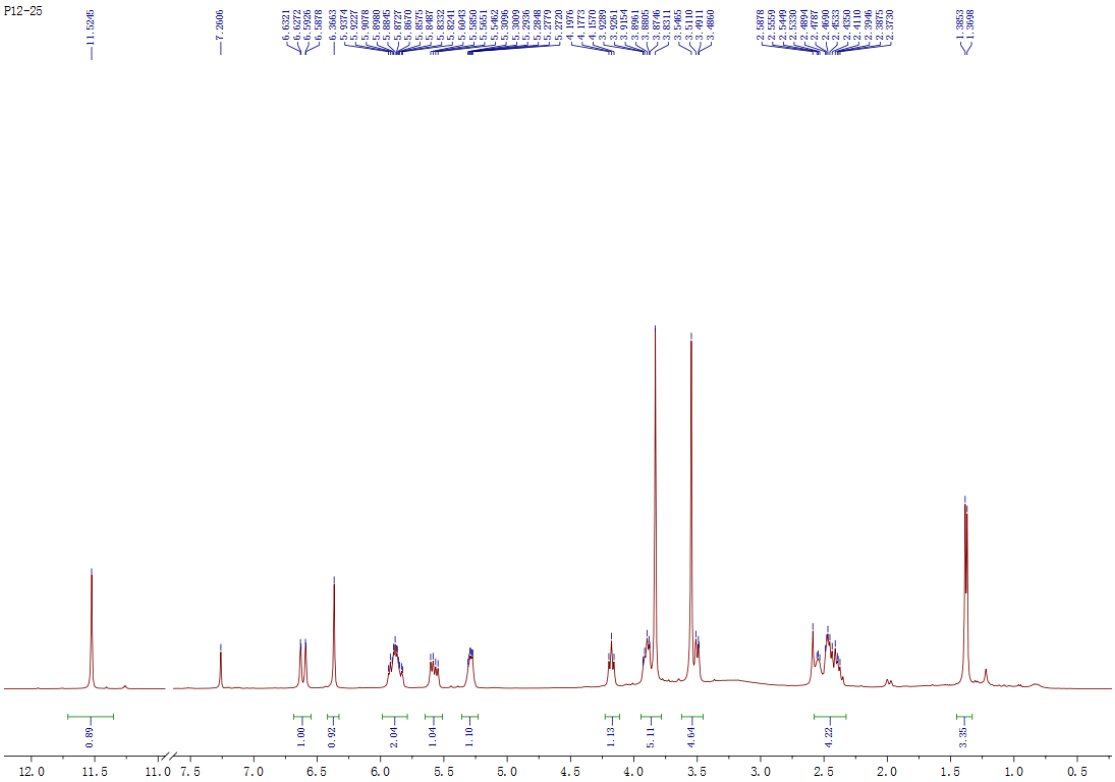


Figure S7. ^{1}H NMR spectrum of **1** ($CDCl_3$, 400MHz)

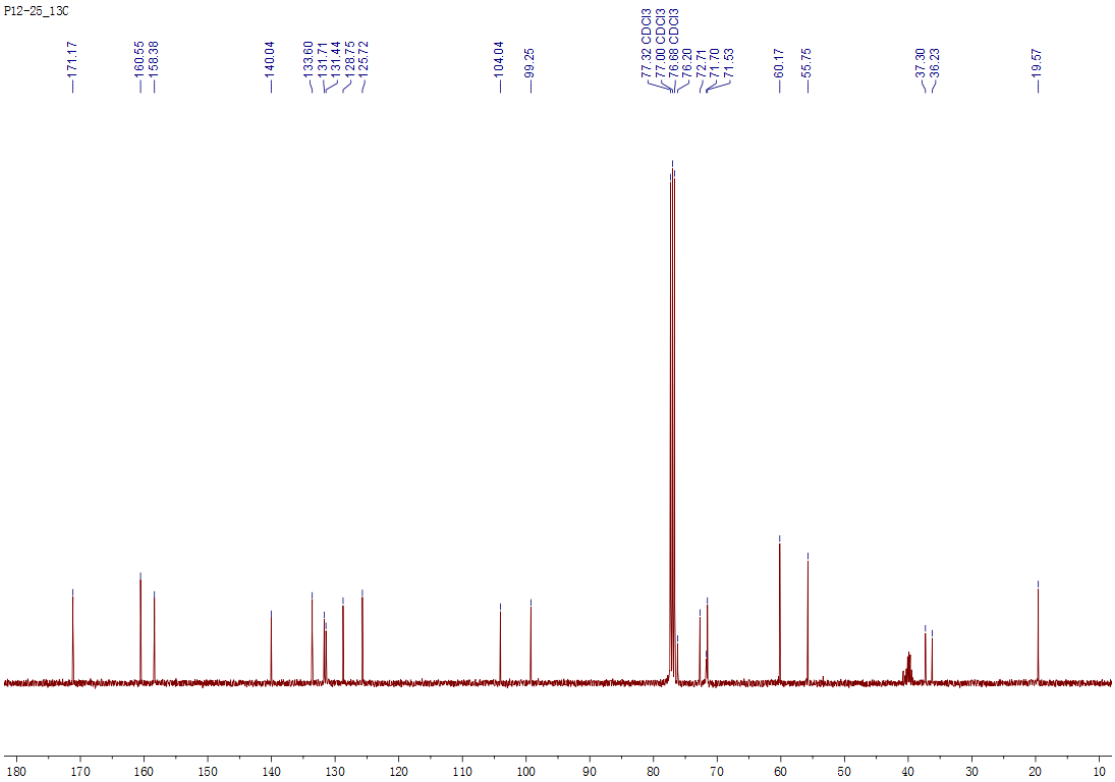


Figure S8. ^{13}C NMR spectrum of **1** ($CDCl_3$, 100MHz)

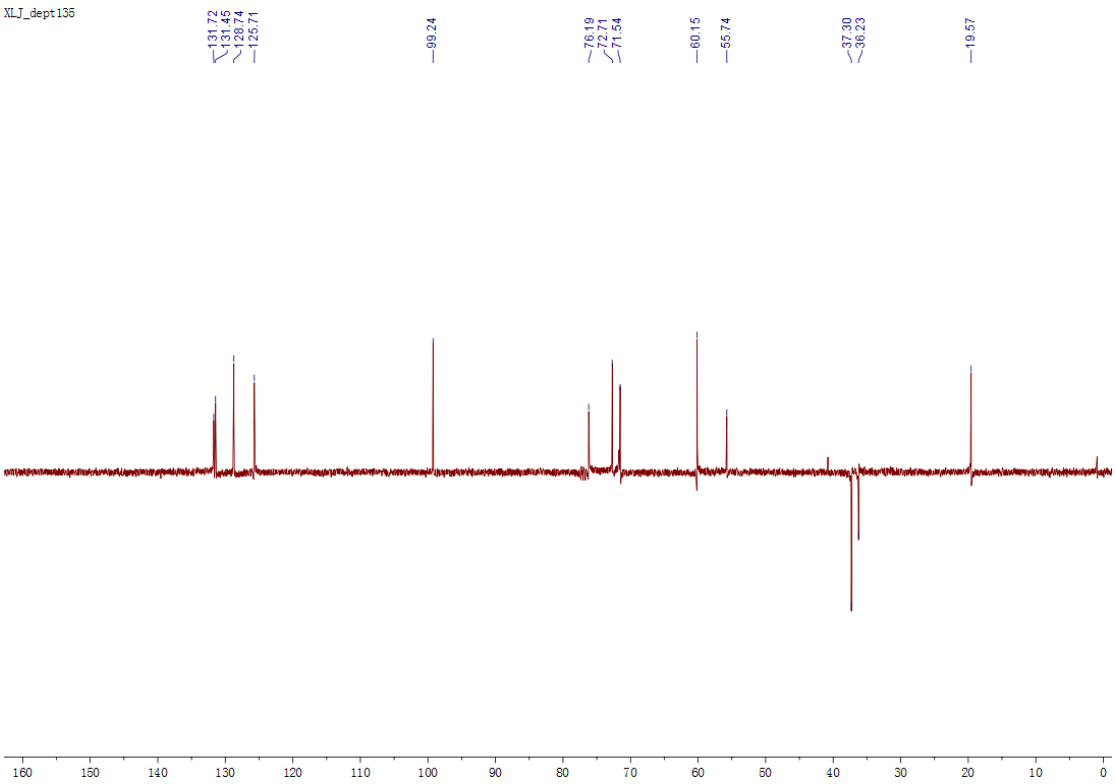


Figure S9. DEPT-135 spectrum of **1** ($CDCl_3$, 100MHz)

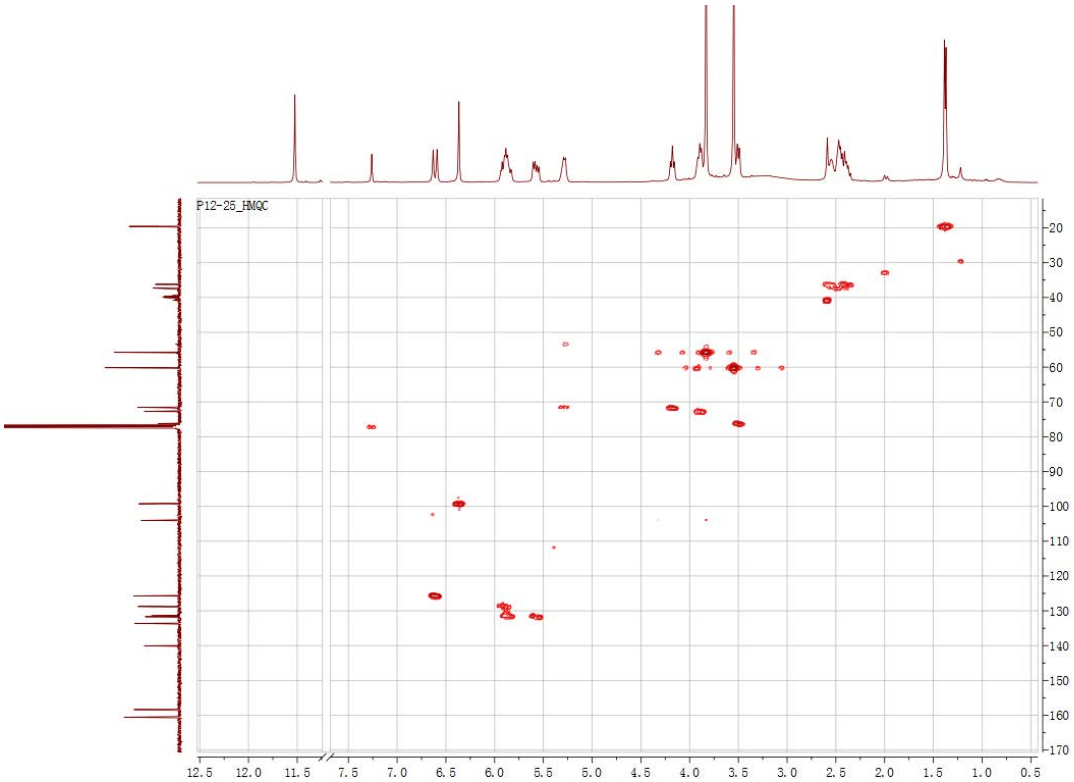


Figure S10. HMQC spectrum of **1** ($CDCl_3$)

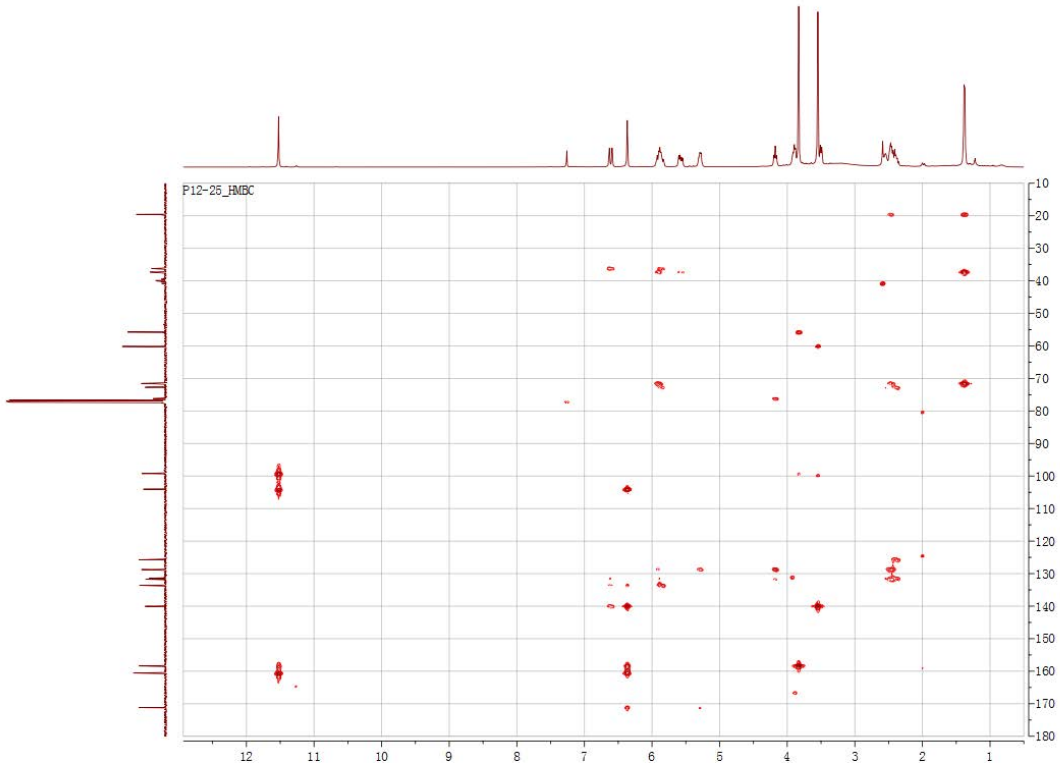


Figure S11. HMBC spectrum of **1** ($CDCl_3$)

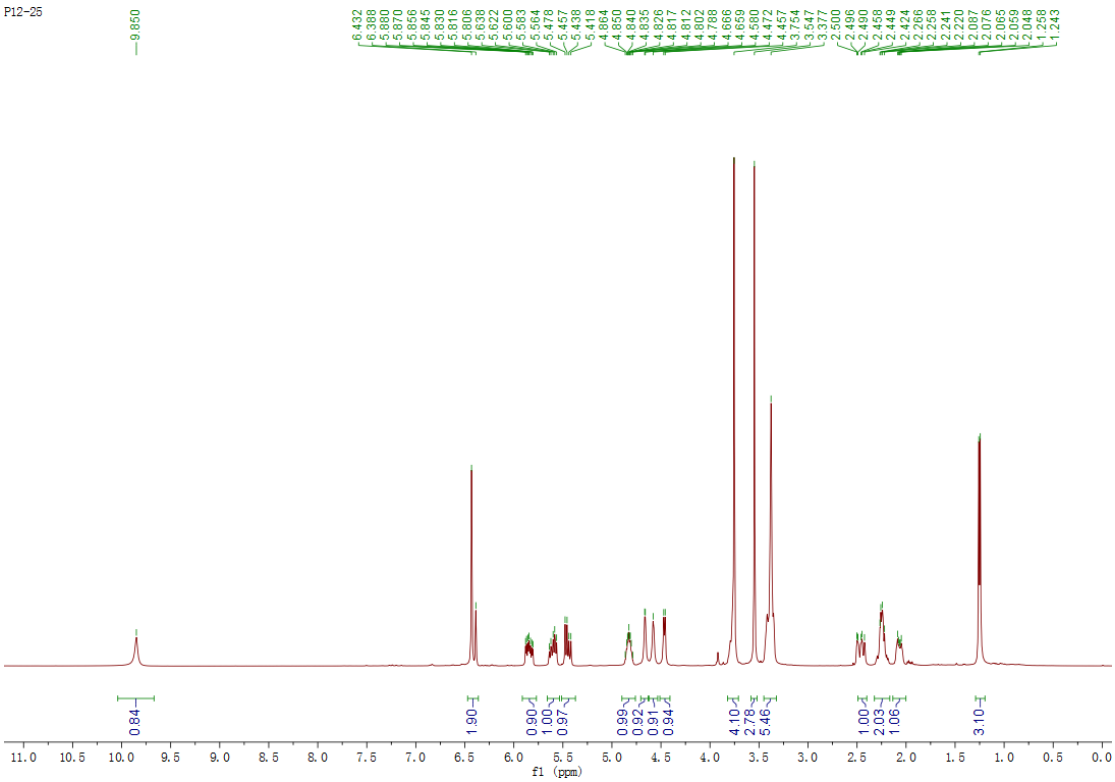


Figure S12. ^{1}H NMR spectrum of **1** (DMSO-d_6, 400MHz)

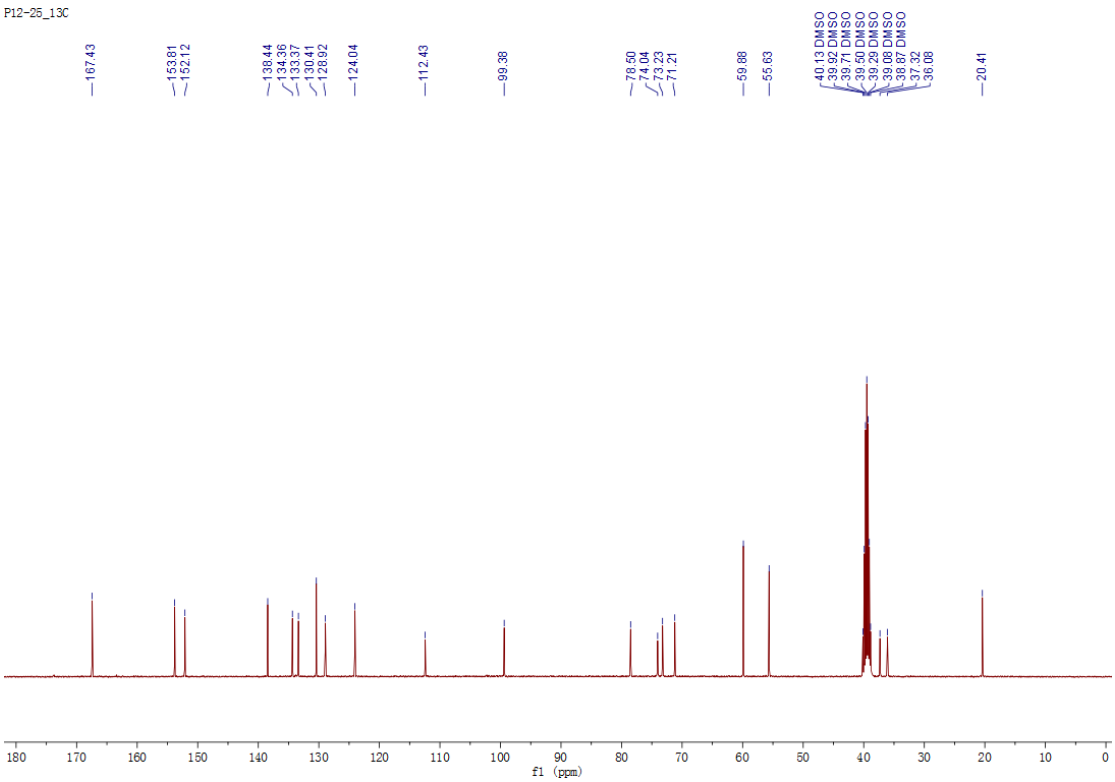


Figure S13. ^{13}C NMR spectrum of **1** (DMSO-d_6, 100MHz)

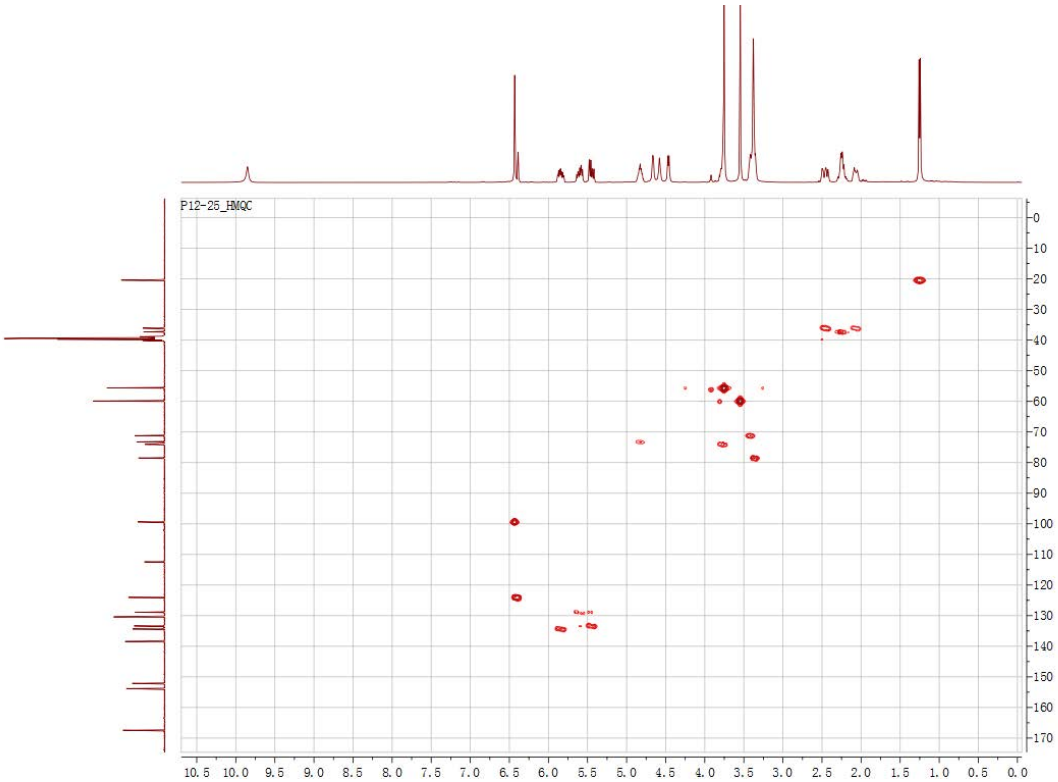


Figure S14. HMQC spectrum of **1** (DMSO-d_6)

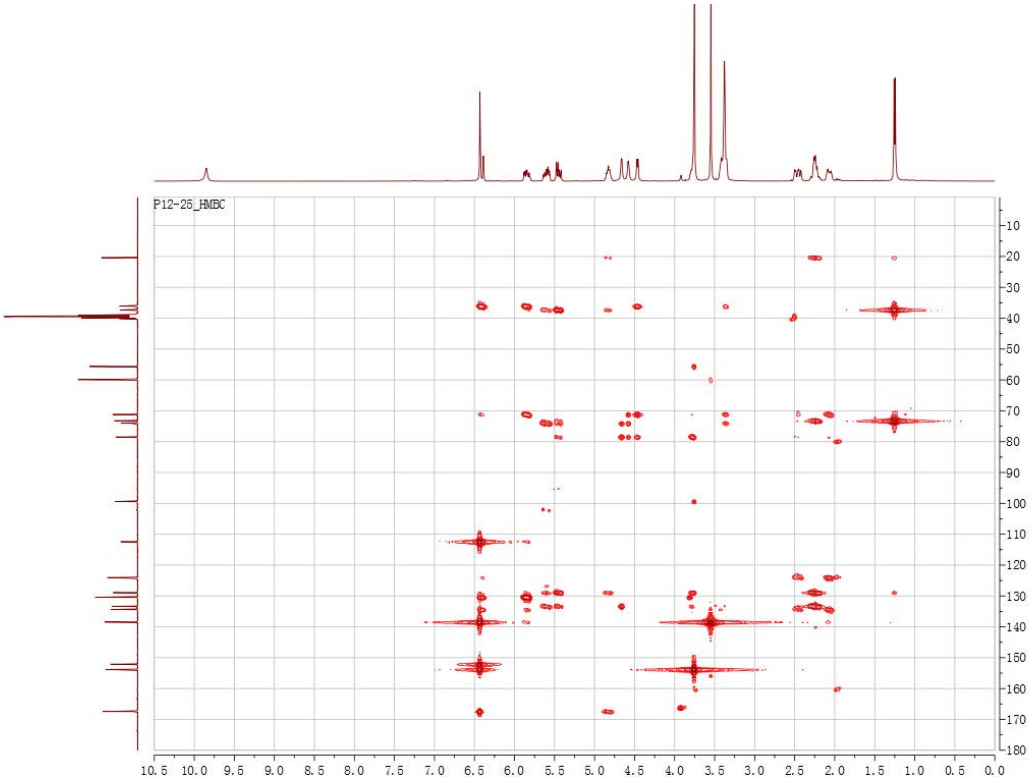


Figure S15. HMBC spectrum of **1** (DMSO-d_6)

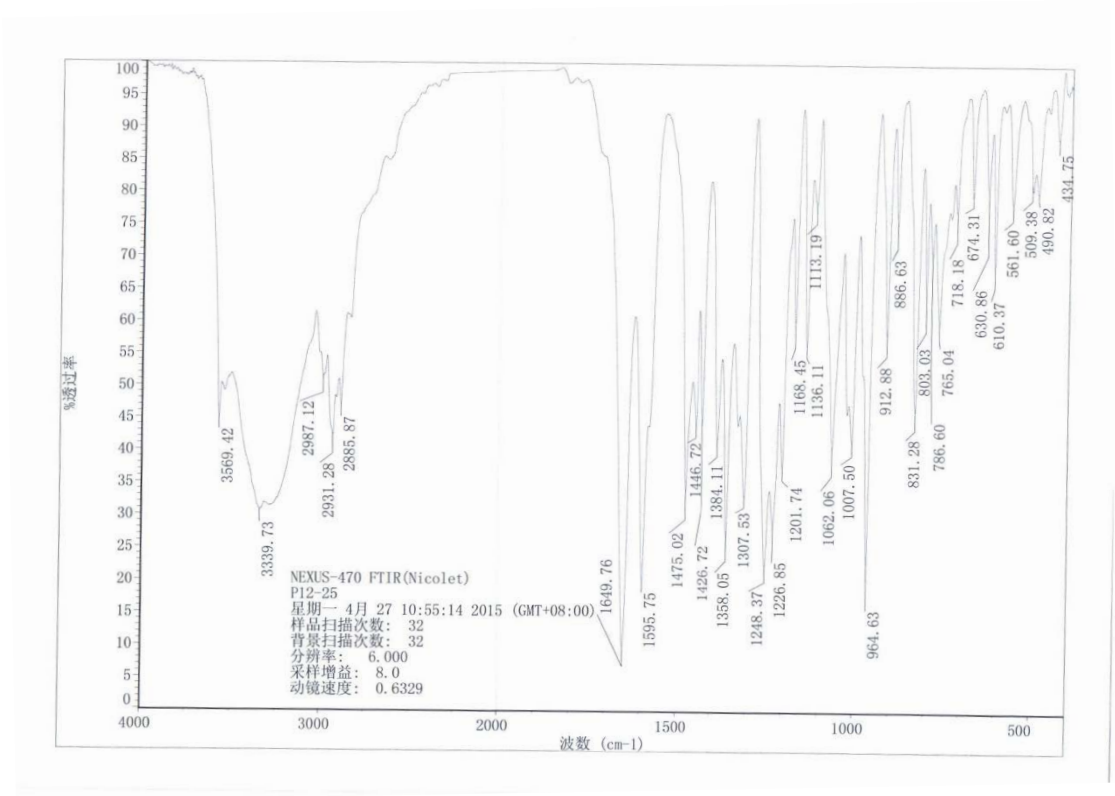


Figure S16. IR spectrum of **1**

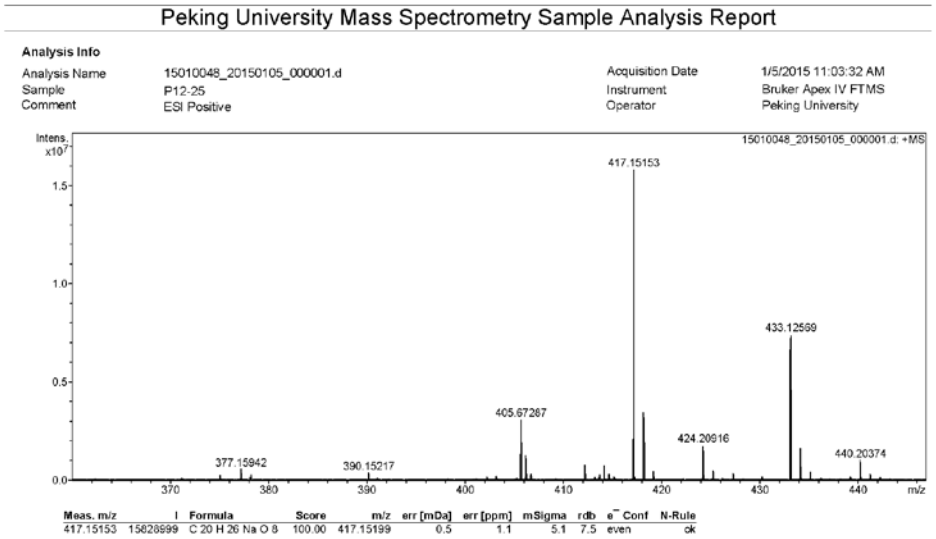


Figure S17. HRESIMS spectrum of **1**

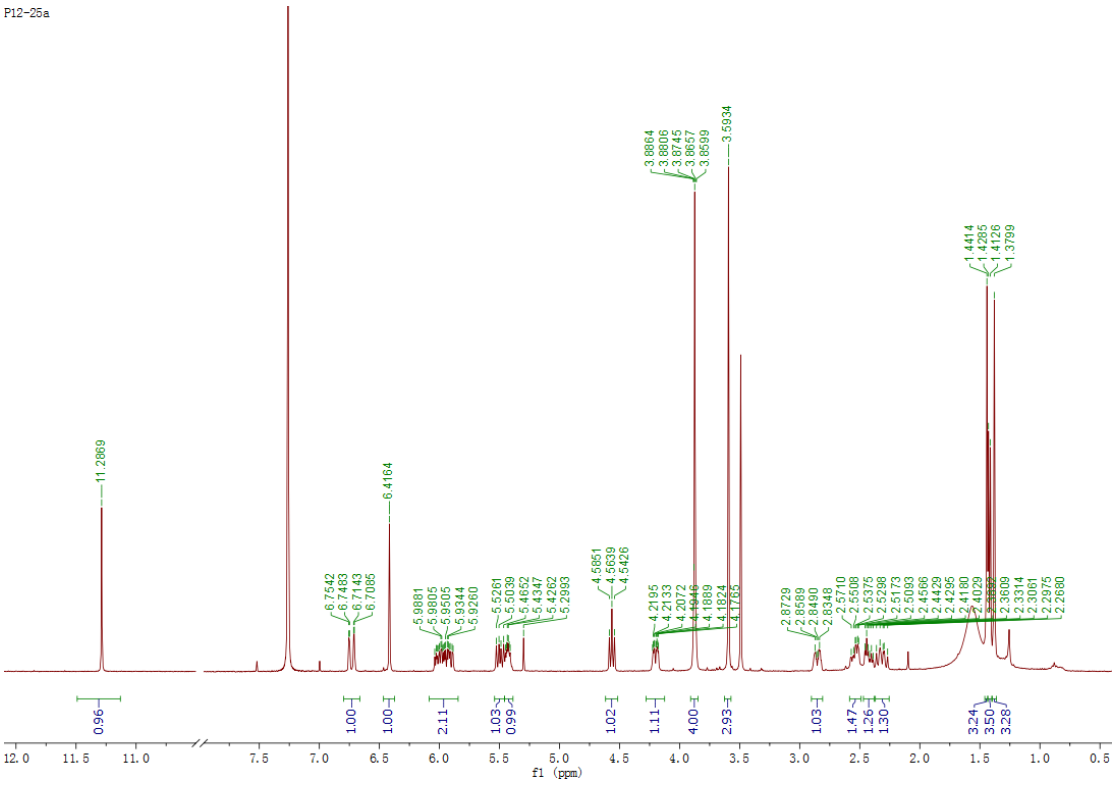


Figure S18. ^{1}H NMR spectrum of **1a** ($CDCl_3$, 400MHz)

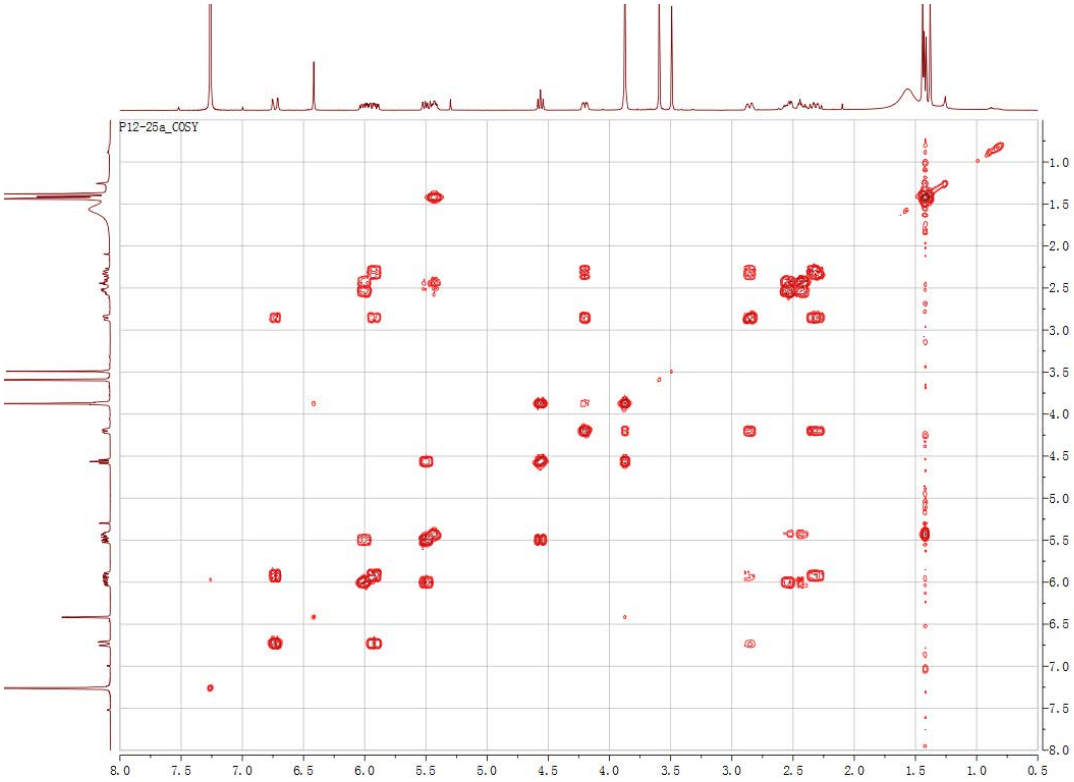


Figure S19. ^{1}H-^{1}H COSY spectrum of **1a** ($CDCl_3$)

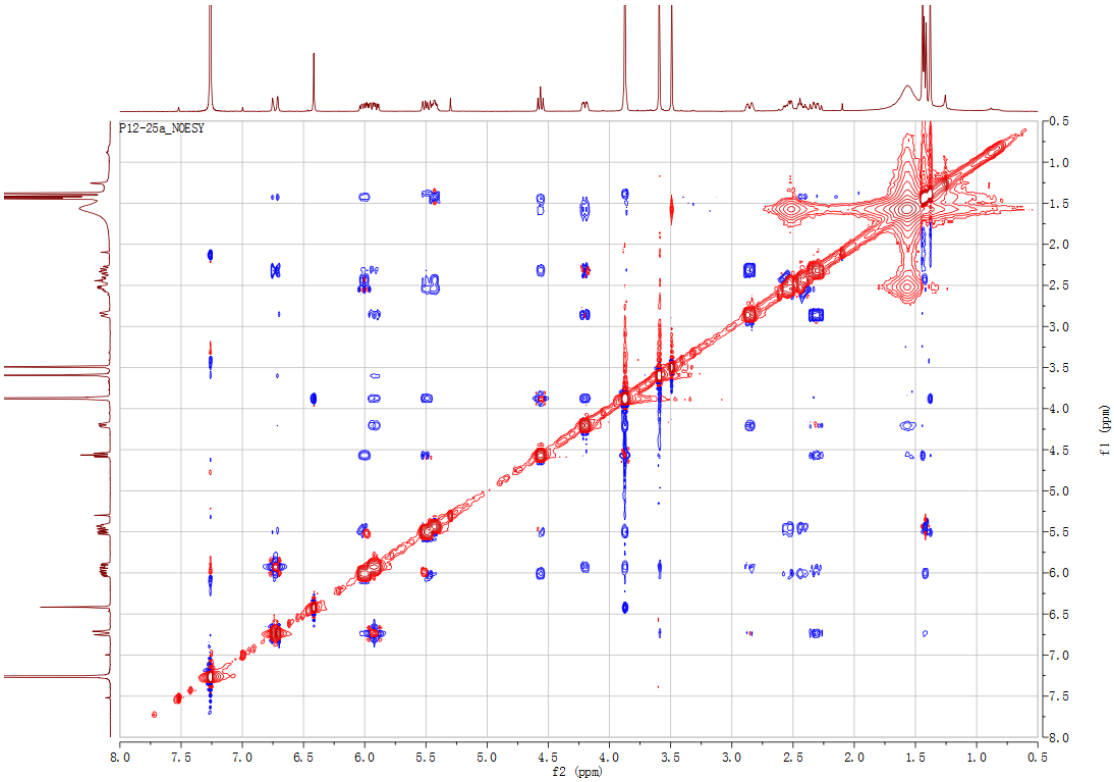


Figure S20. NOESY spectrum of **1a** ($CDCl_3$)

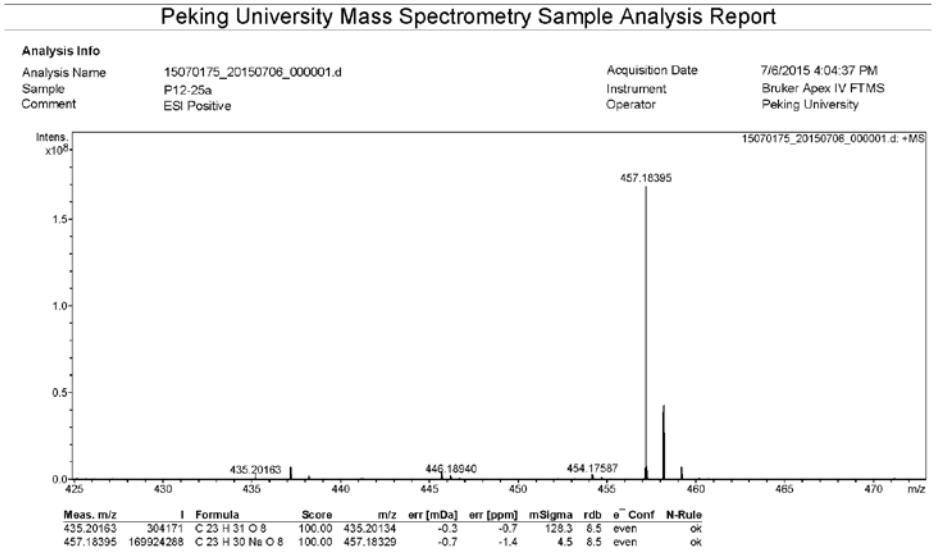


Figure S21. HRESIMS spectrum of **1a**

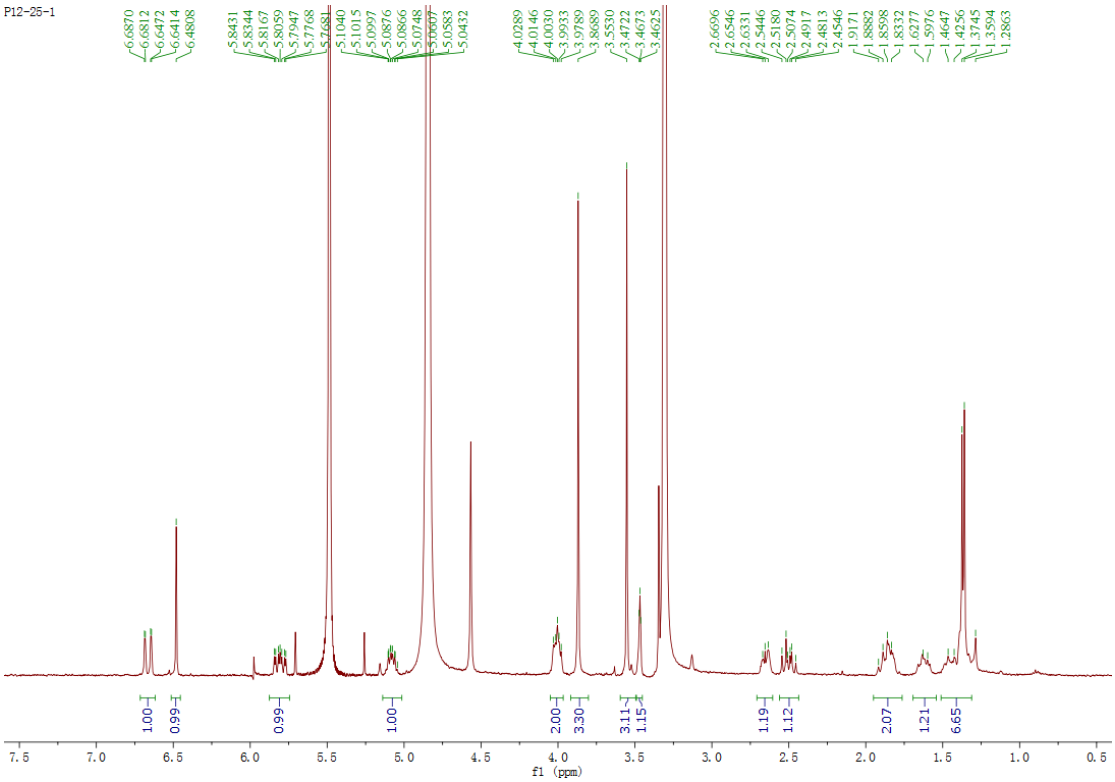


Figure S22. ^{1}H NMR spectrum of **1b** (CD_3OD, 400MHz)

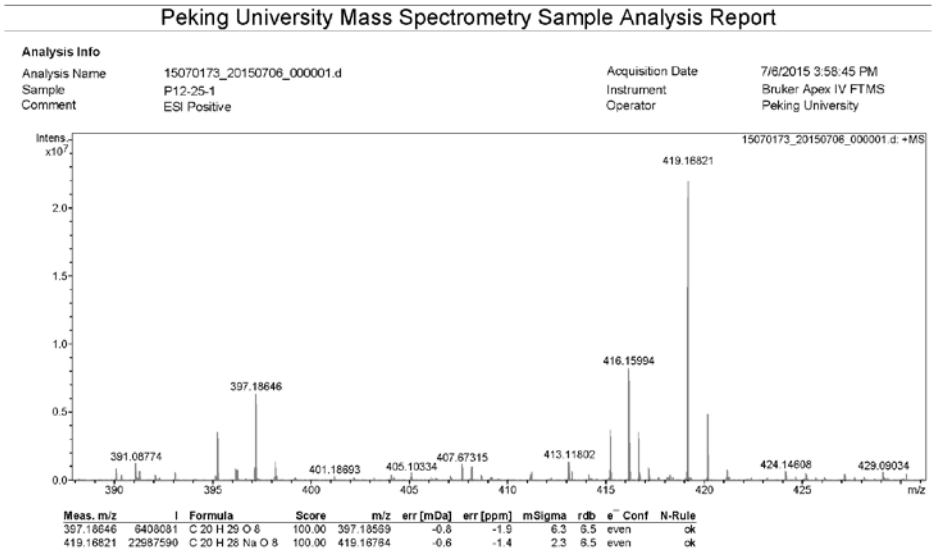


Figure S23. HRESIMS spectrum of **1b**

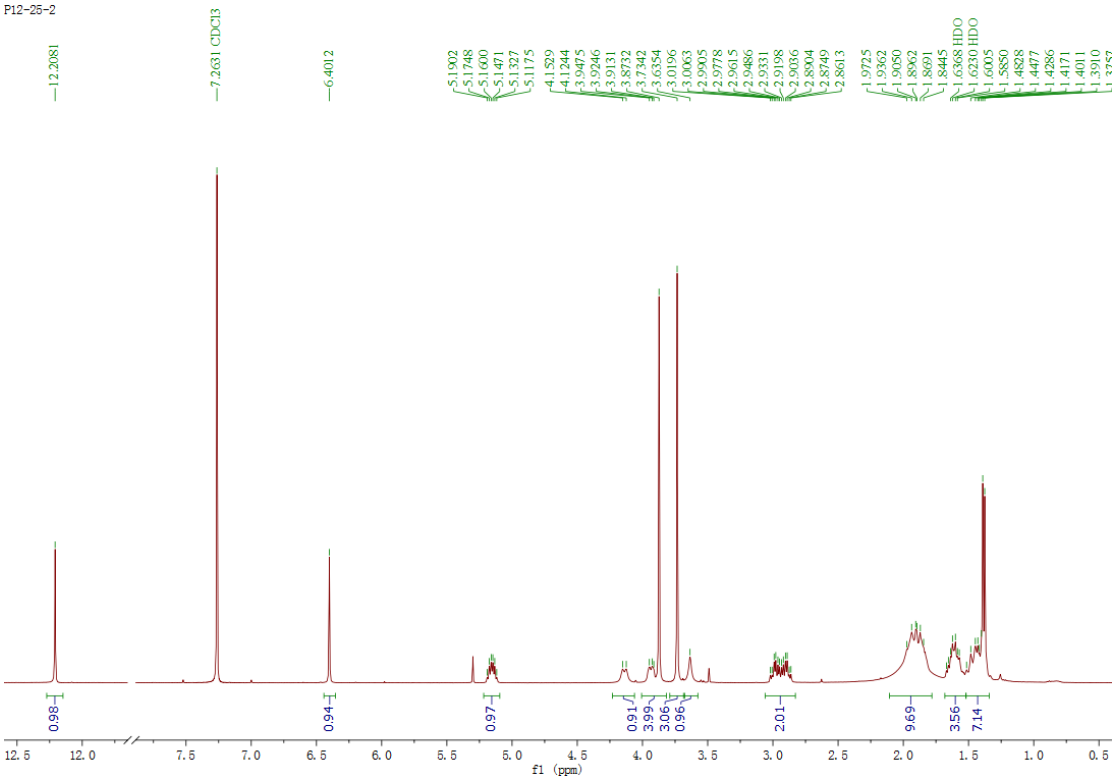


Figure S24. ^{1}H NMR spectrum of **1c** ($CDCl_3$, 400MHz)

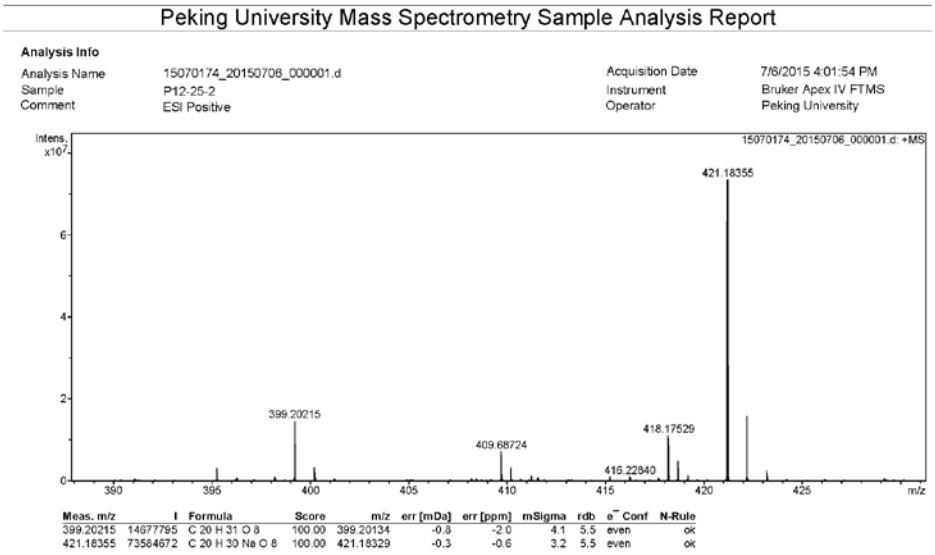


Figure S25. HRESIMS spectrum of **1c**

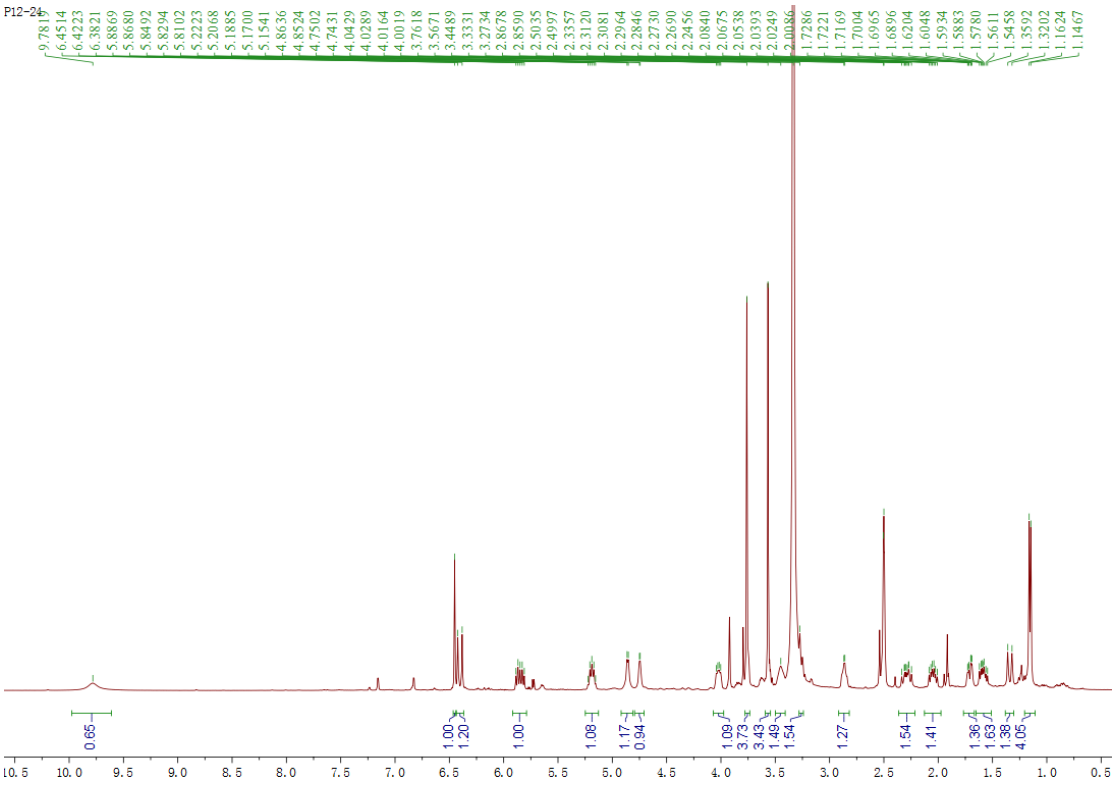


Figure S26. ^{1}H NMR spectrum of **2** (DMSO-d_6, 400MHz)

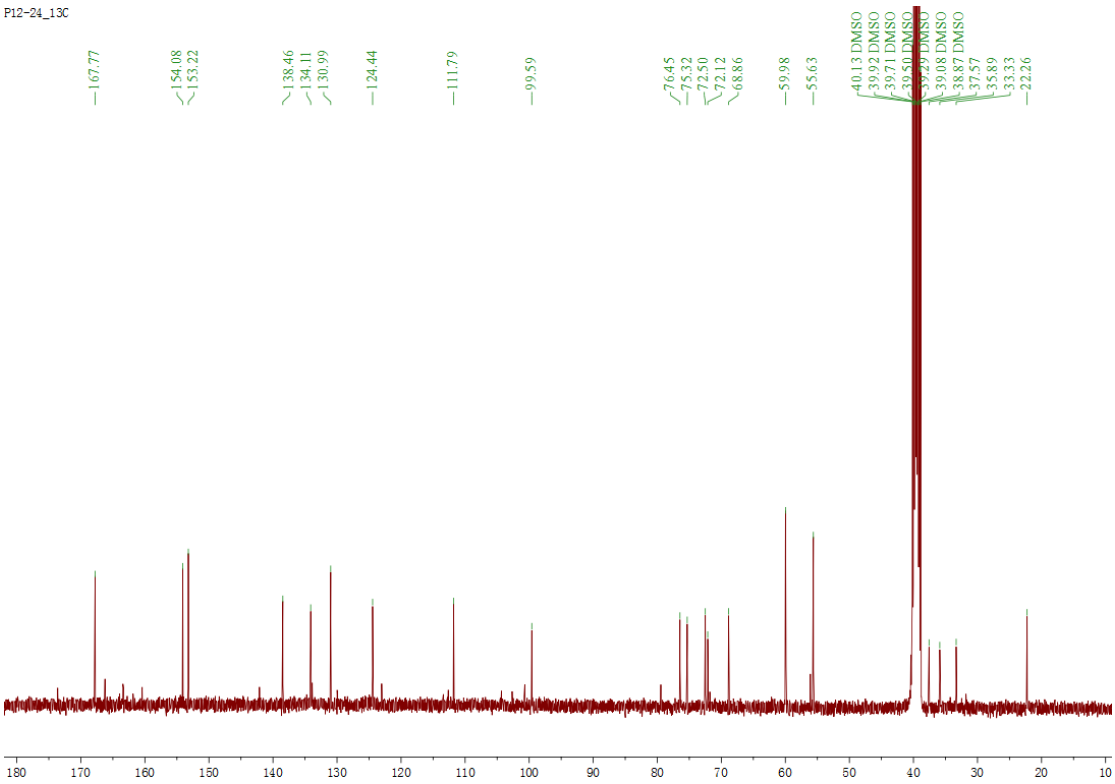


Figure S27. ^{13}C NMR spectrum of **2** (DMSO-d_6, 100MHz)

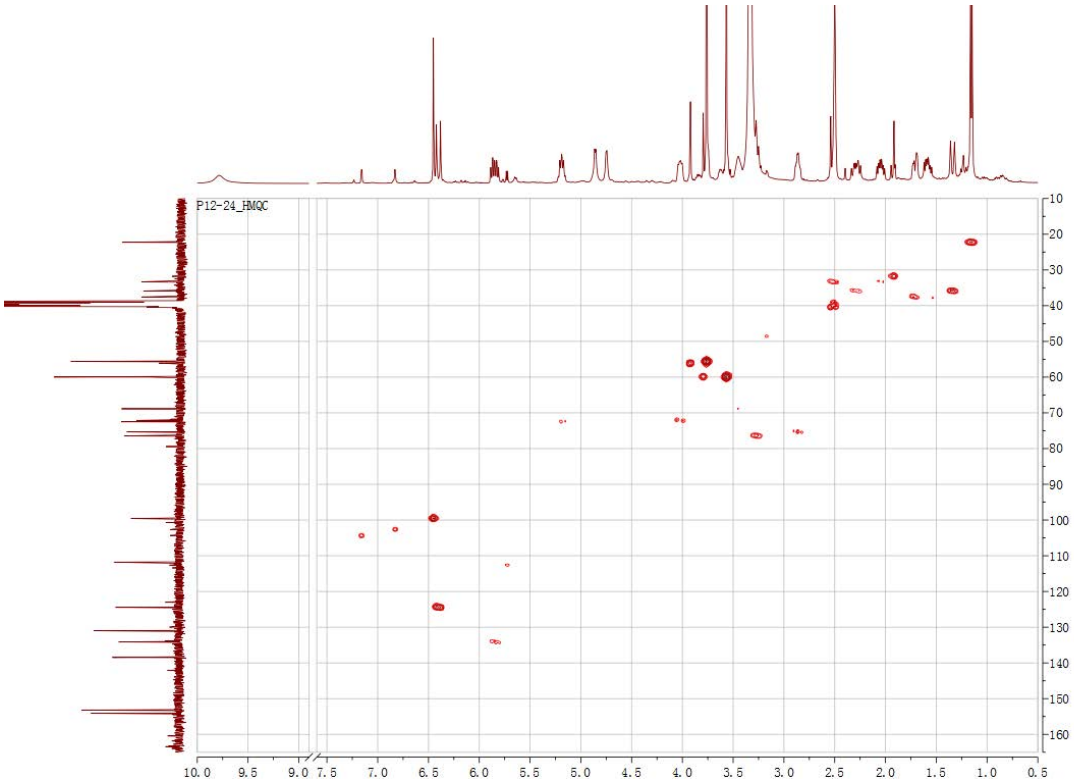


Figure S28. HMQC spectrum of **2** (DMSO-d_6)

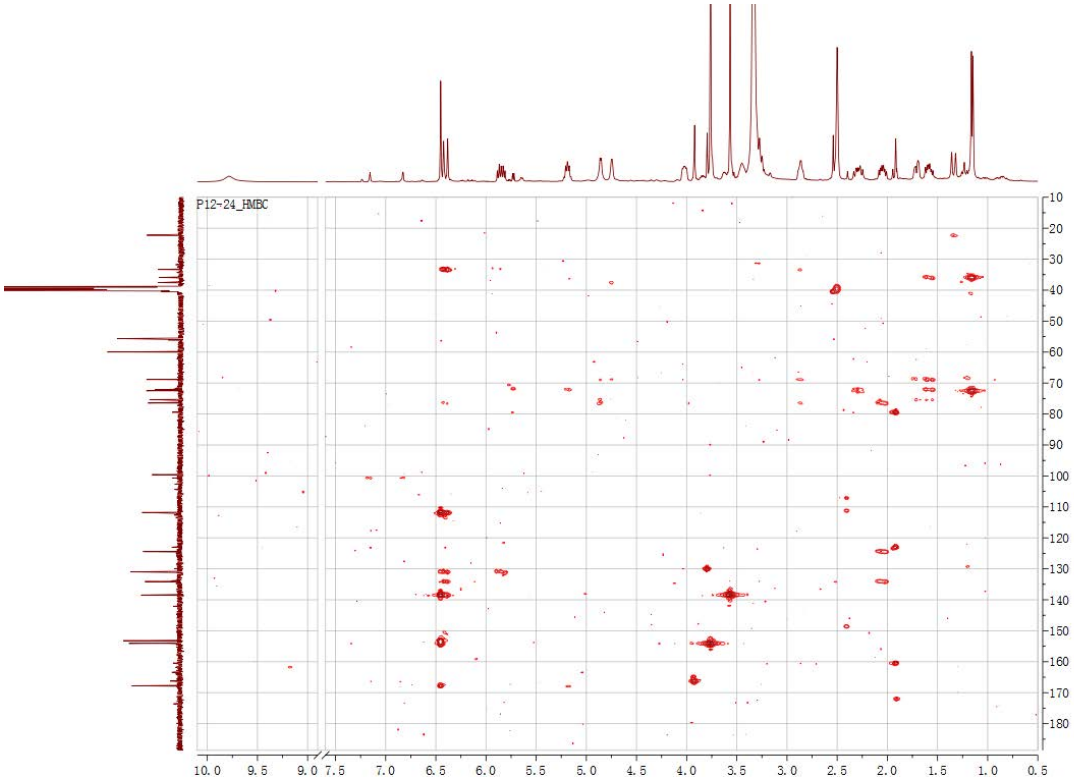


Figure S29. HMBC spectrum of **2** (DMSO-d_6)

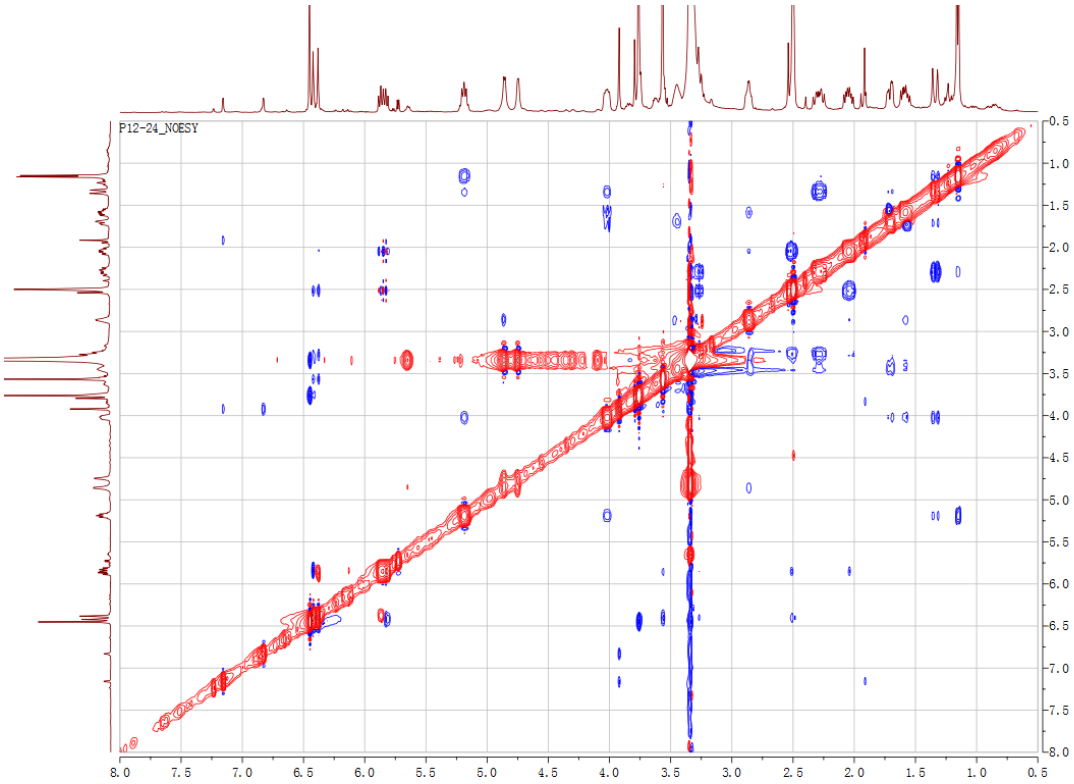


Figure S30. NOESY spectrum of **2** (DMSO-d_6)

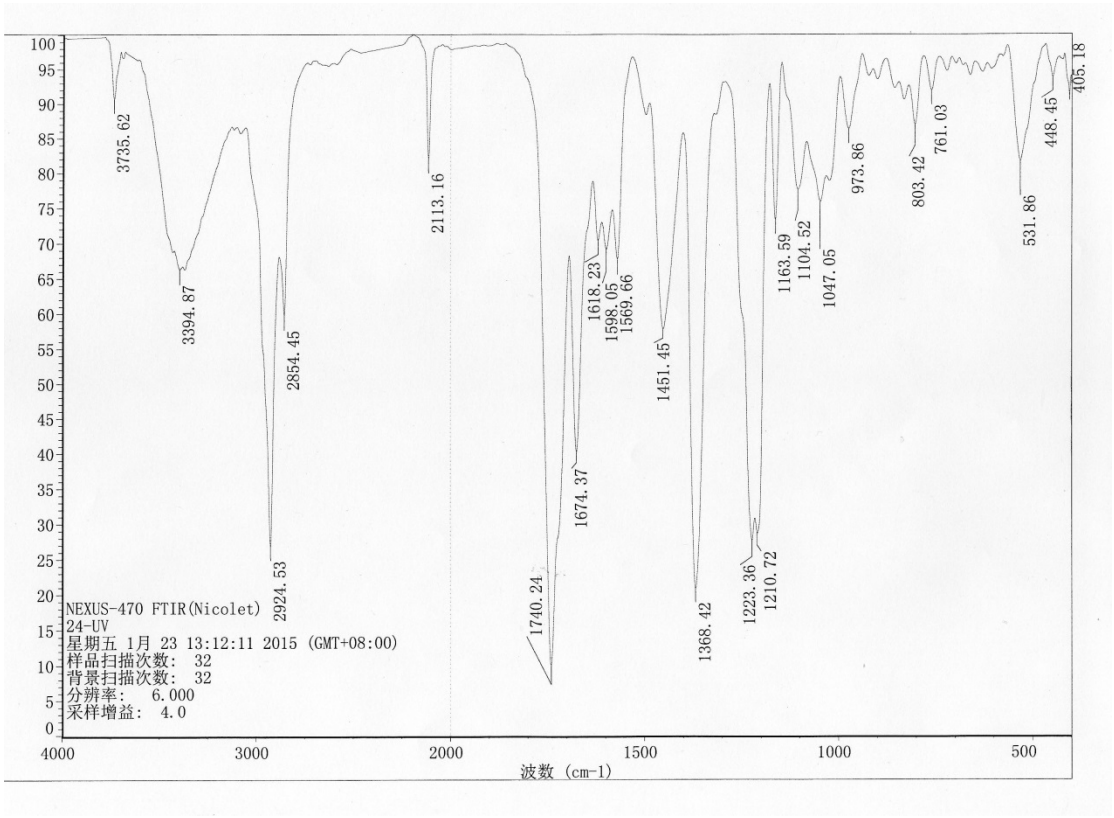


Figure S31. IR spectrum of **2**

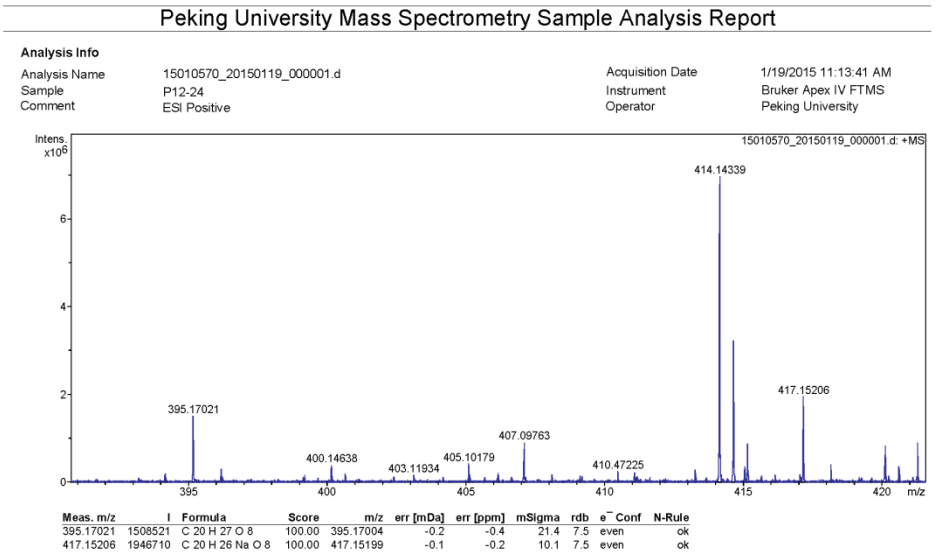


Figure S32. HRESIMS spectrum of **2**

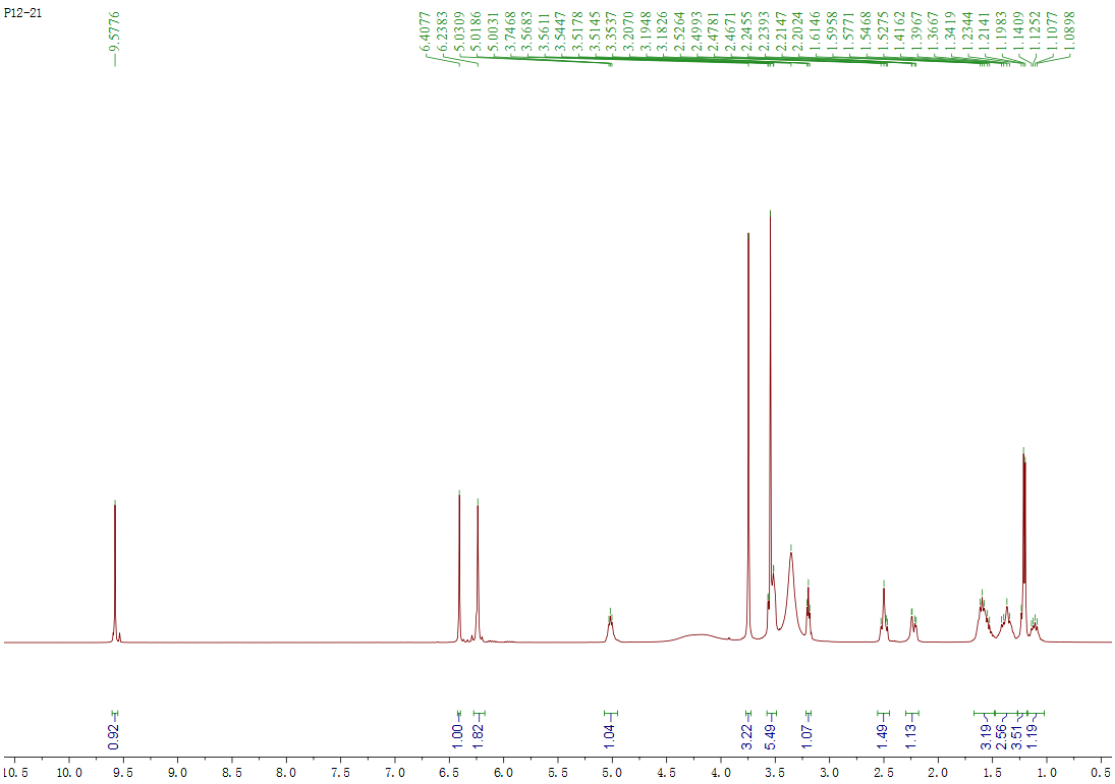


Figure S33. ^{1}H NMR spectrum of **3** (DMSO-d_6, 400MHz)

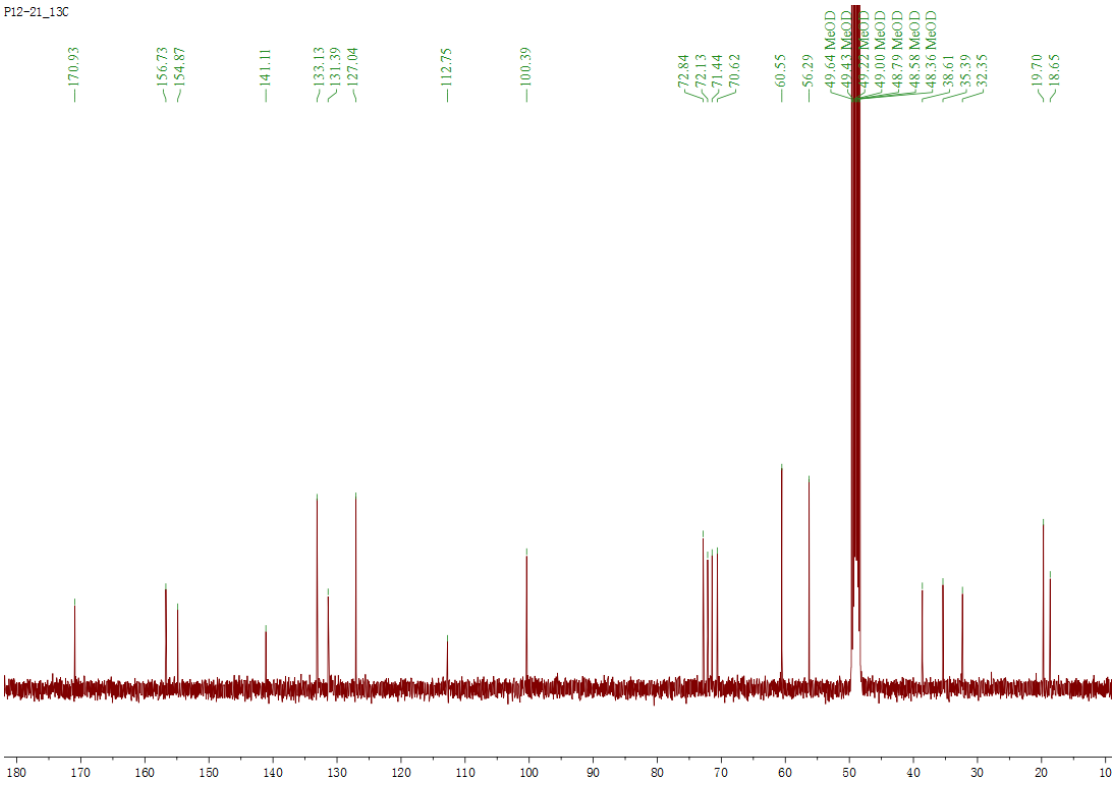


Figure S34. ^{13}C NMR spectrum of **3** (DMSO-d_6, 100MHz)

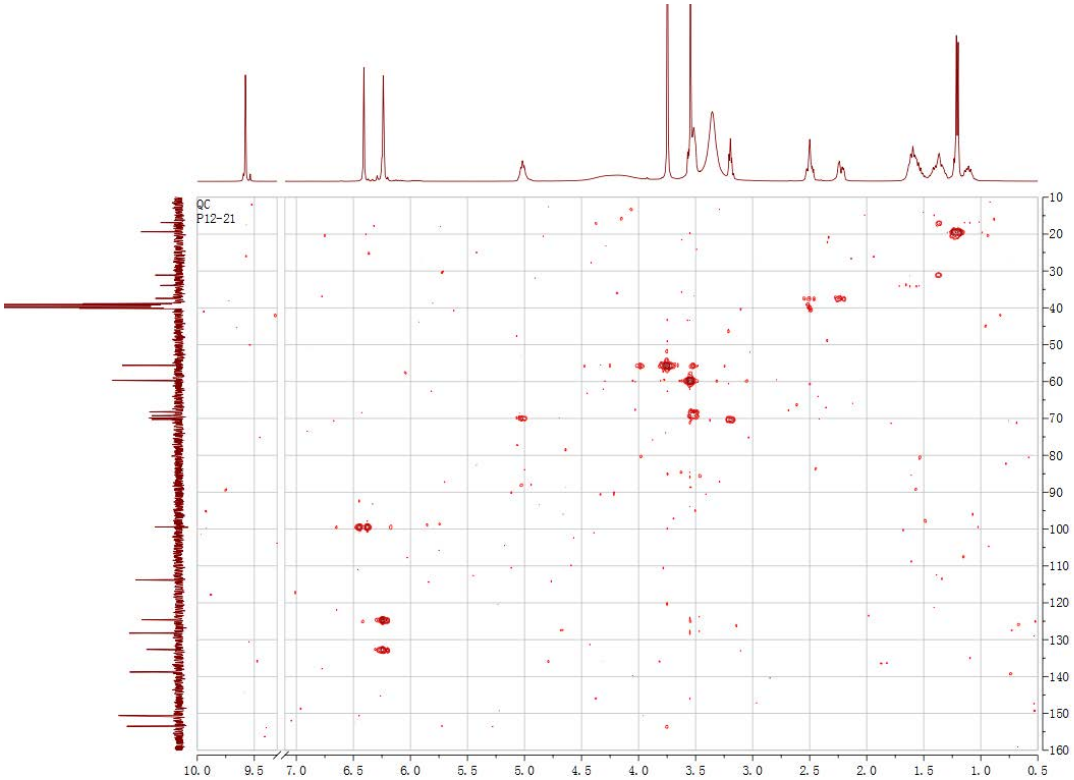


Figure S35. HMQC spectrum of **3** (DMSO-d_6)

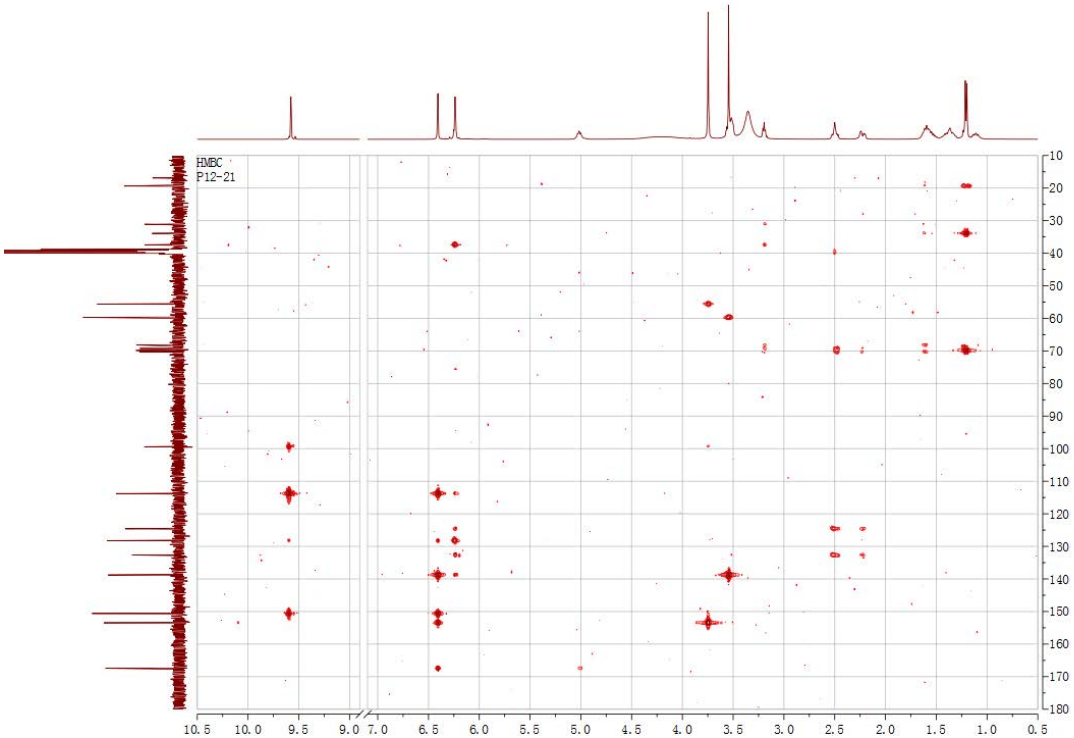


Figure S36. HMBC spectrum of **3** (DMSO-d_6)

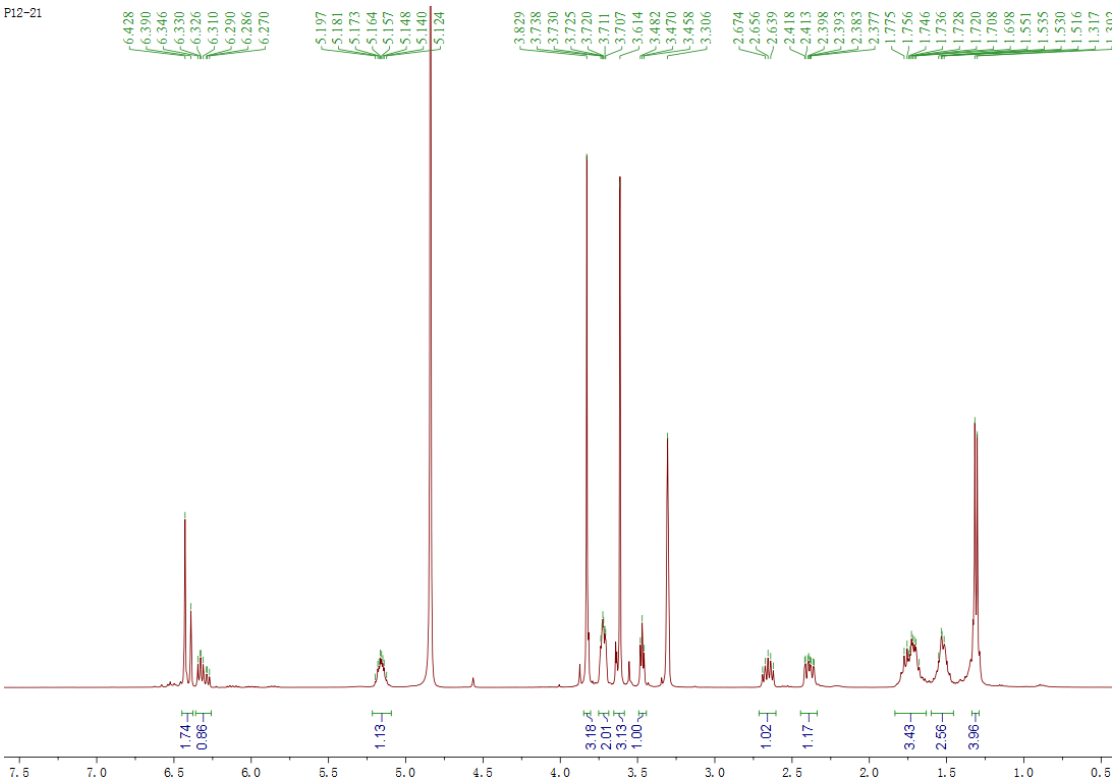


Figure S37. ^{1}H NMR spectrum of **3** (CD_3OD, 400MHz)

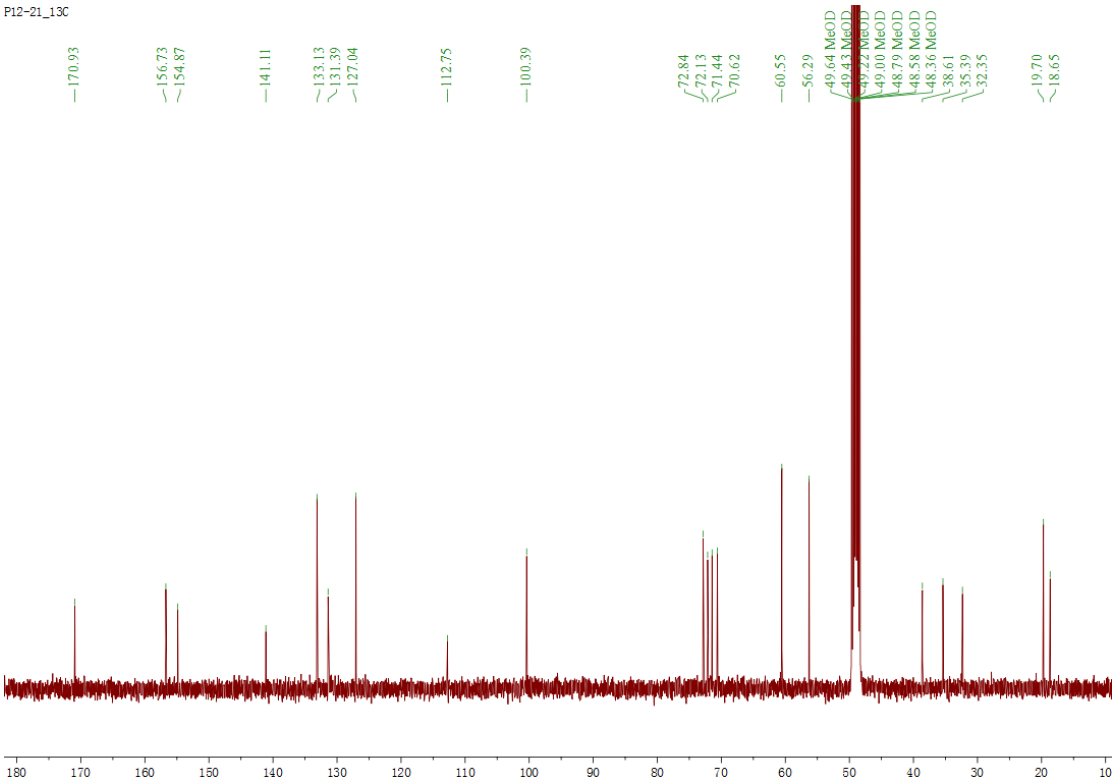


Figure S38. ^{13}C NMR spectrum of **3** (CD_3OD, 100MHz)

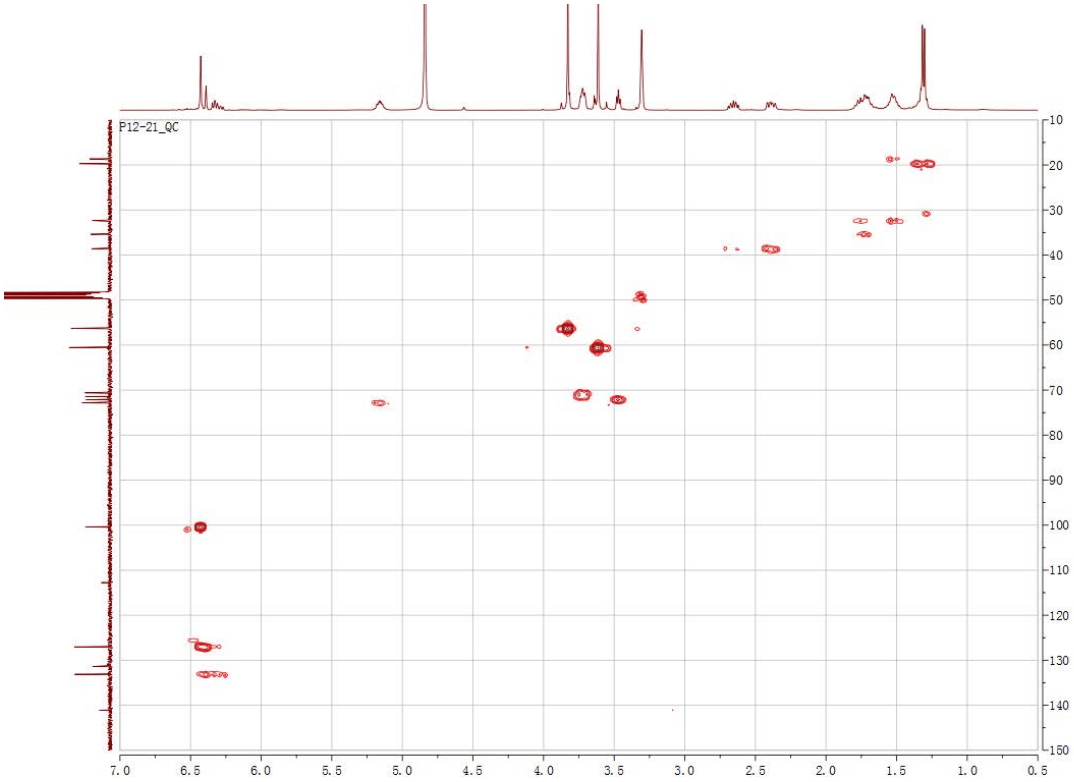


Figure S39. HMQC spectrum of **3** (CD_3OD)

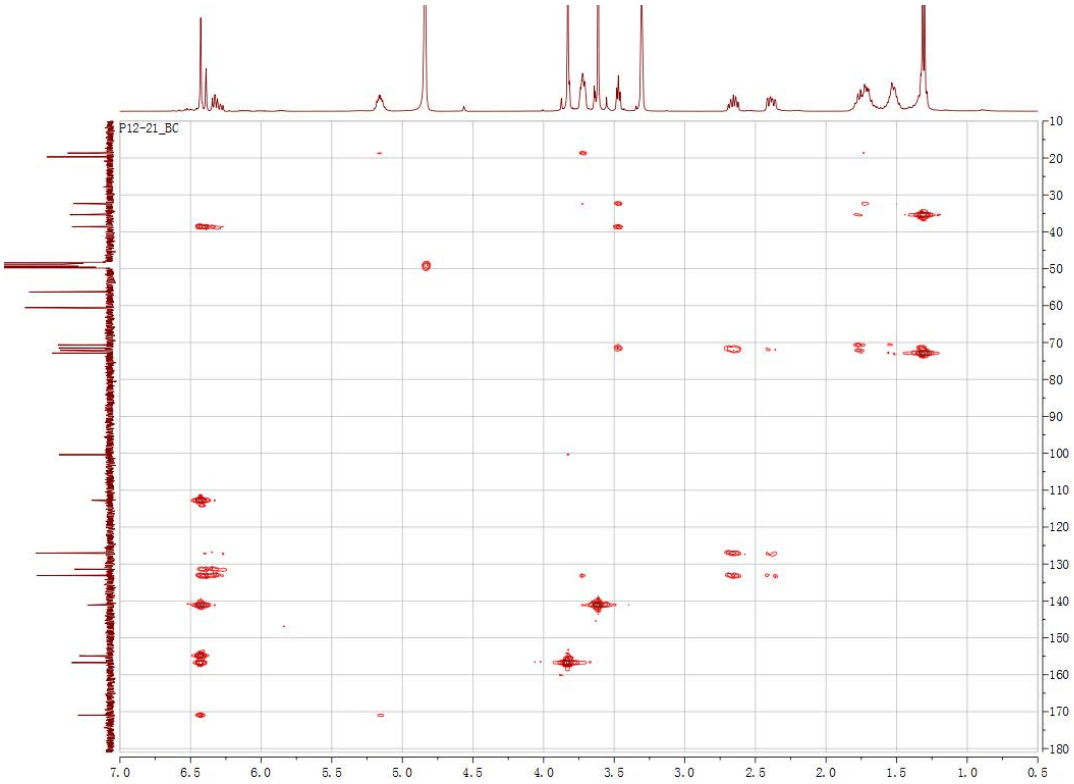


Figure S40. HMBC spectrum of **3** (CD_3OD)

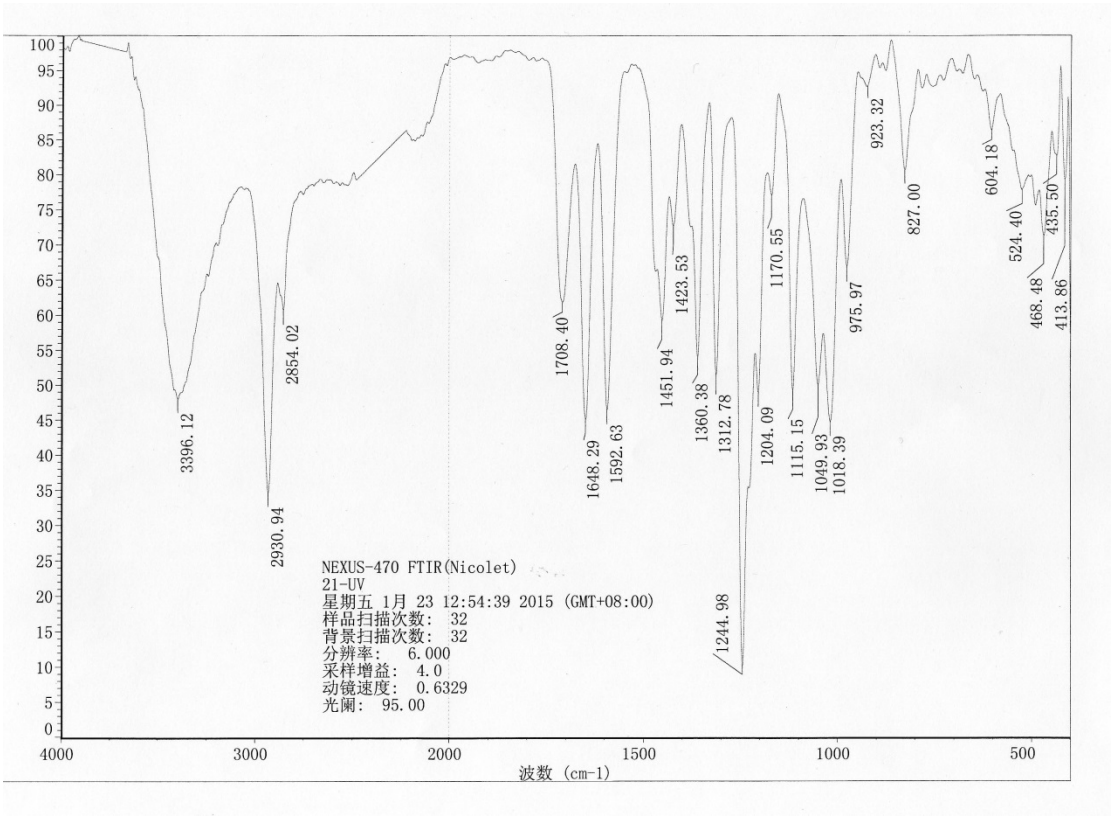


Figure S41. IR spectrum of **3**

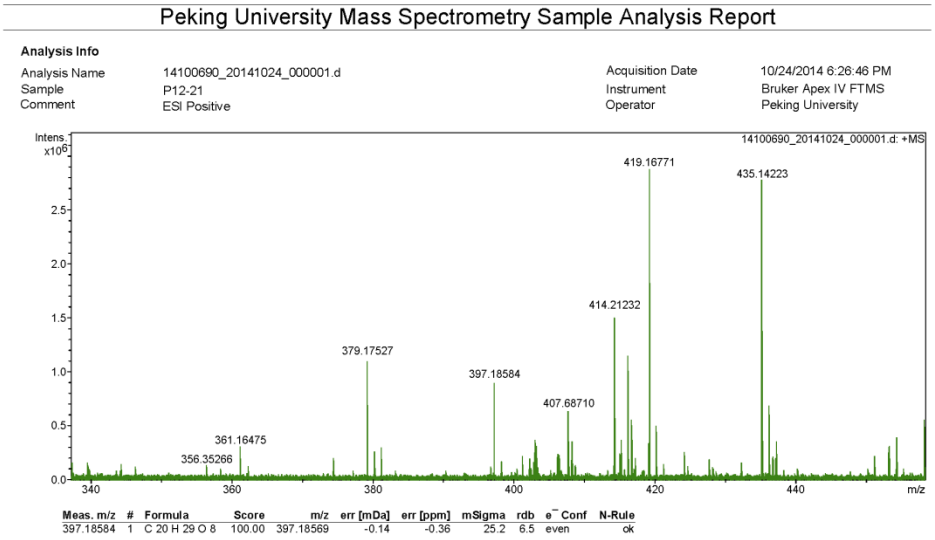


Figure S42. HRESIMS spectrum of **3**

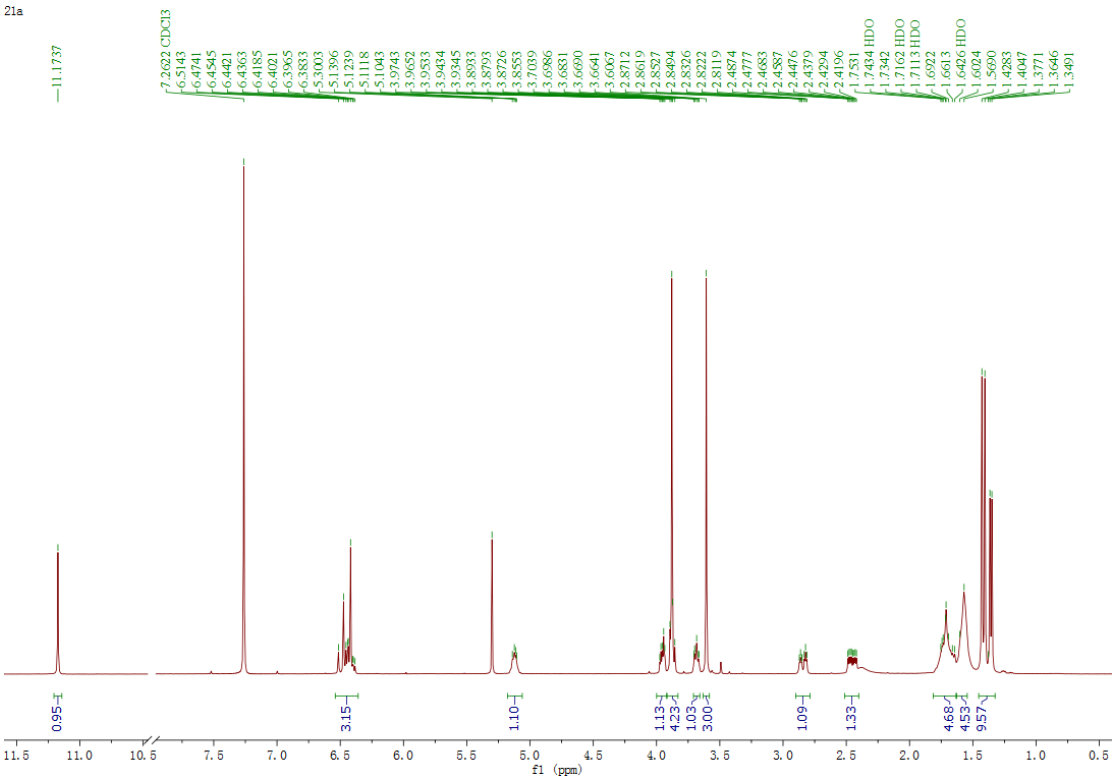


Figure S43. ^{1}H NMR spectrum of **3a** ($CDCl_3$, 400MHz)

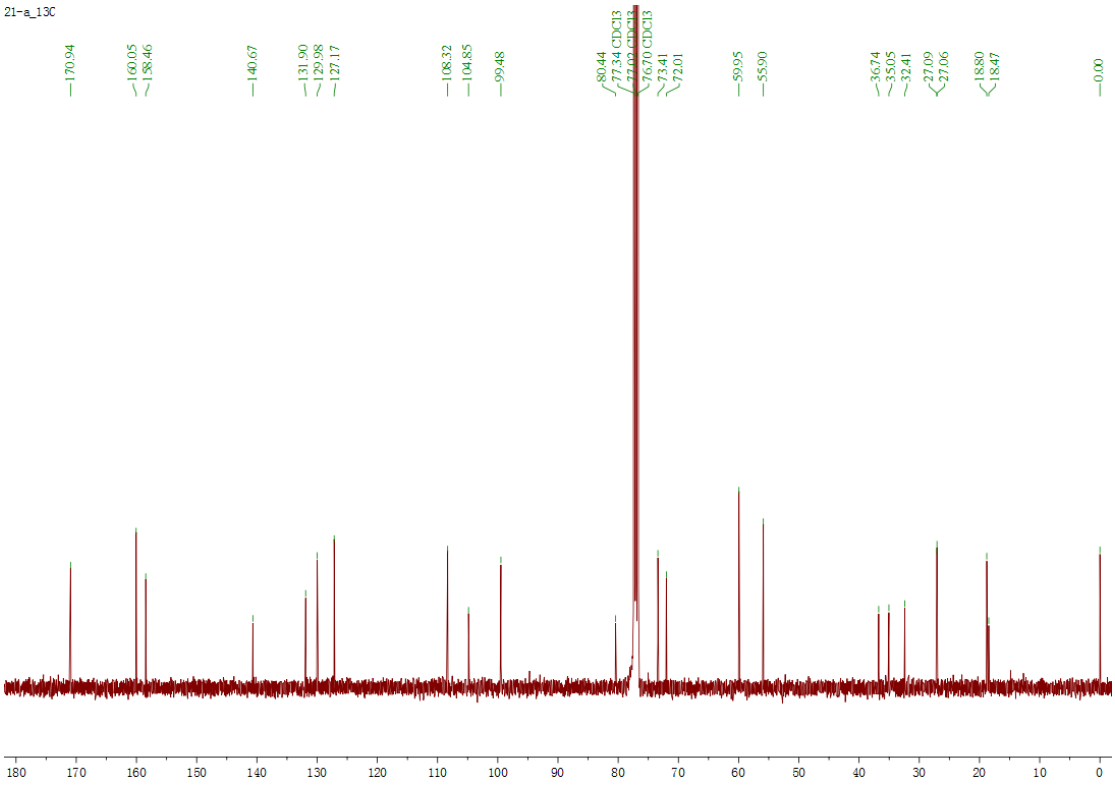


Figure S44. ^{13}C NMR spectrum of **3a** ($CDCl_3$, 100MHz)

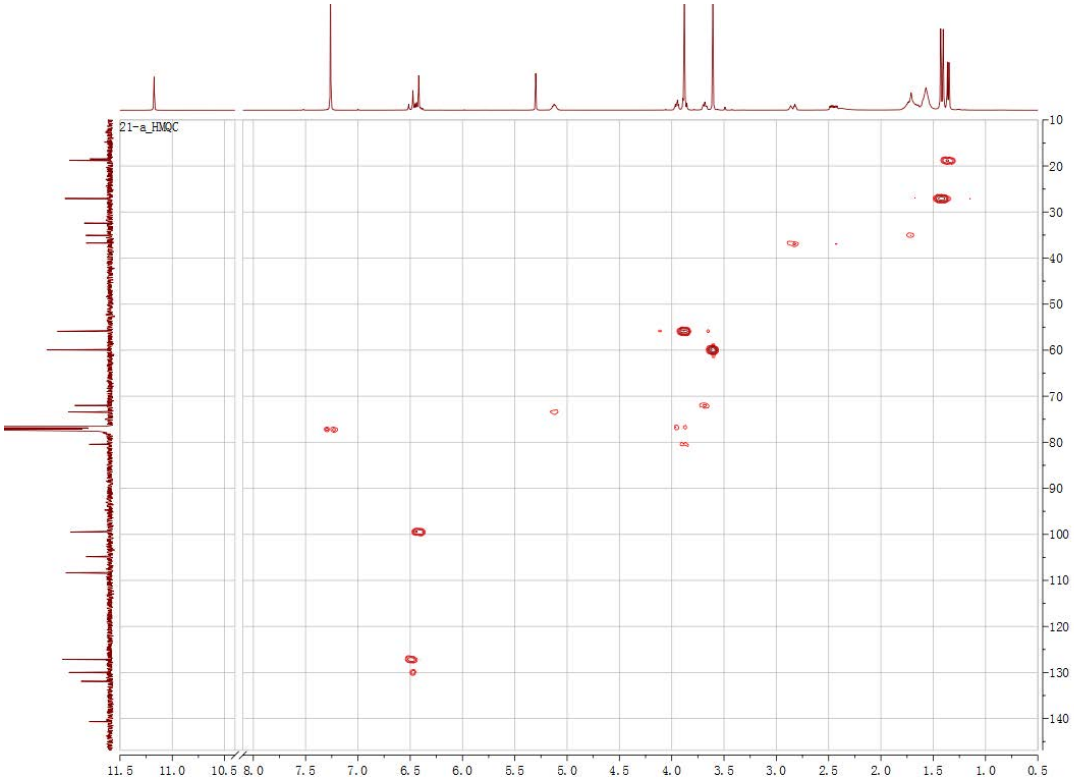


Figure S45. HMQC spectrum of **3a** ($CDCl_3$)

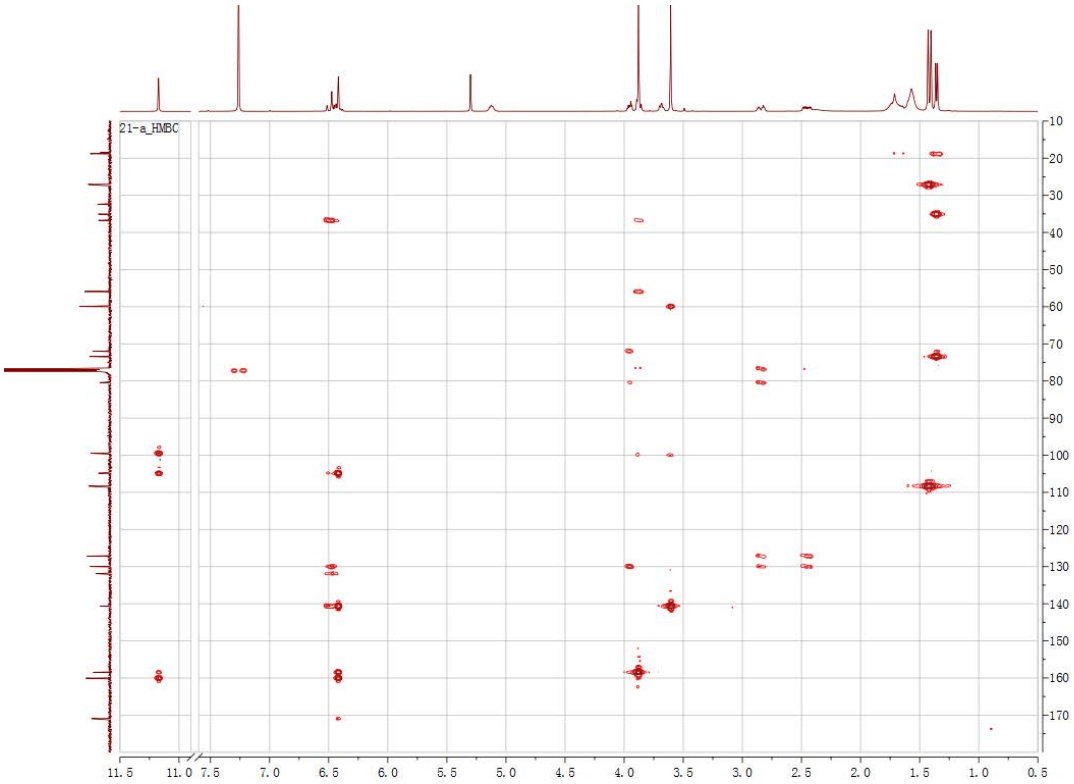


Figure S46. HMBC spectrum of **3a** ($CDCl_3$)

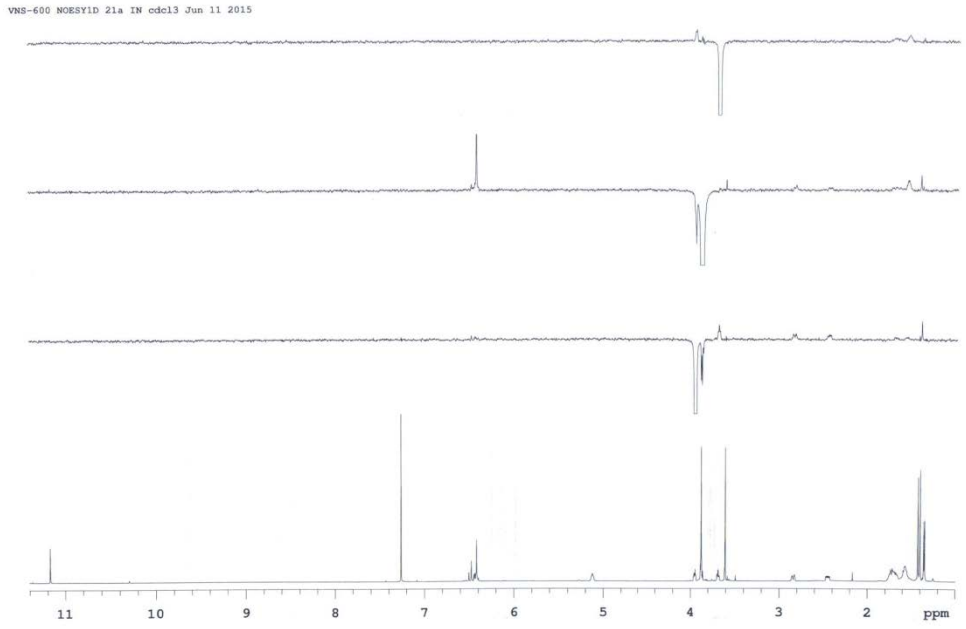


Figure S47. 1D NOE spectrum of **3a** ($CDCl_3$, 600MHz)

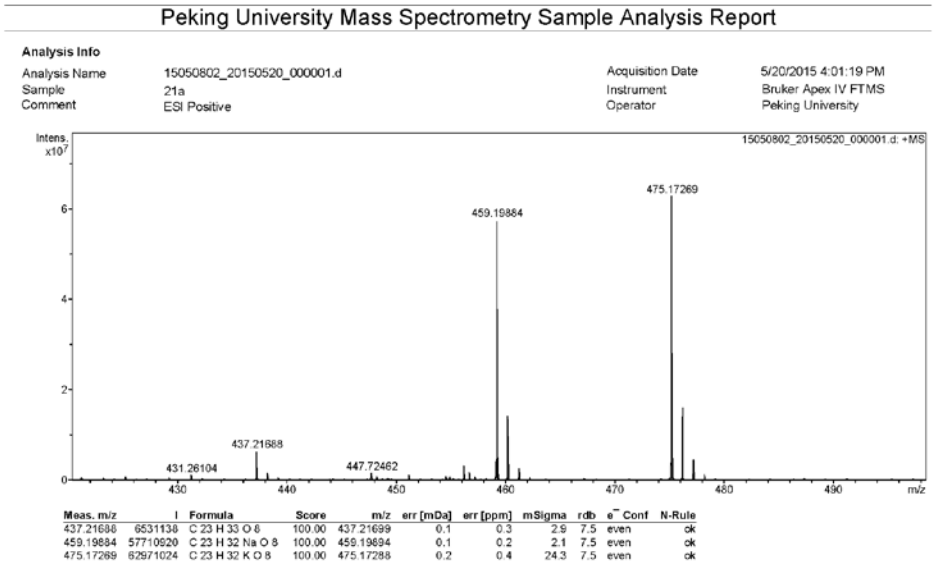


Figure S48. HRESIMS spectrum of **3a**

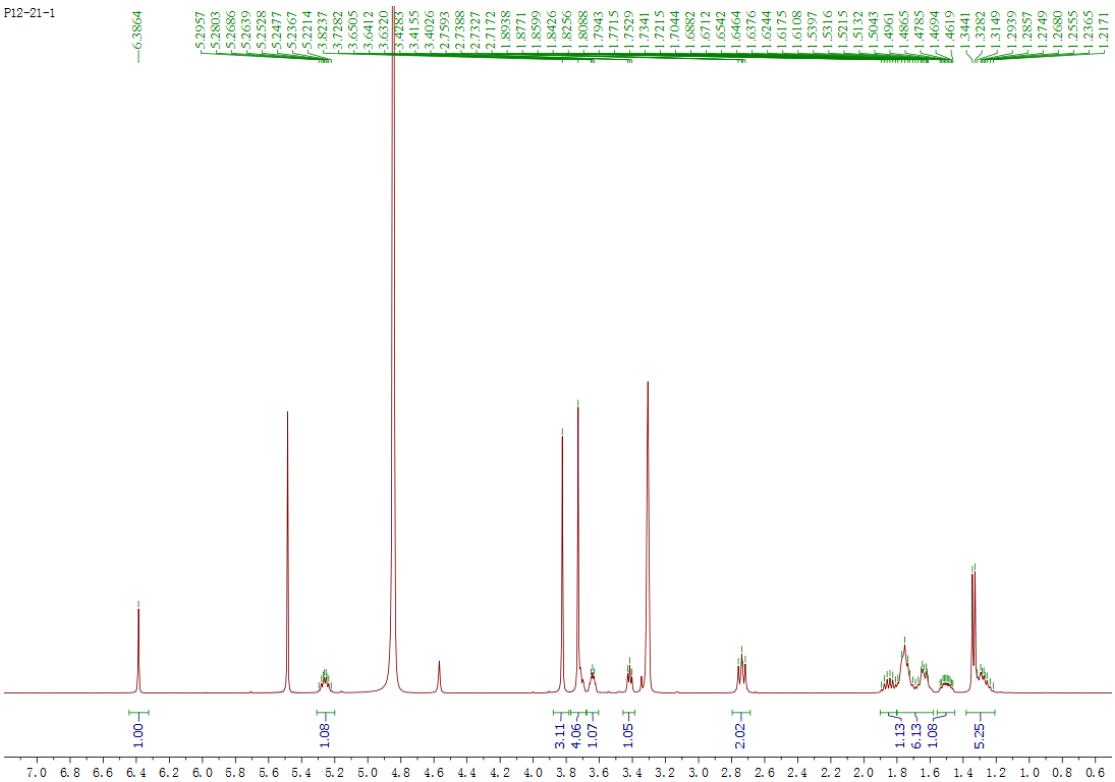


Figure S49. ^{1}H NMR spectrum of **3b** (CD_3OD, 400MHz)

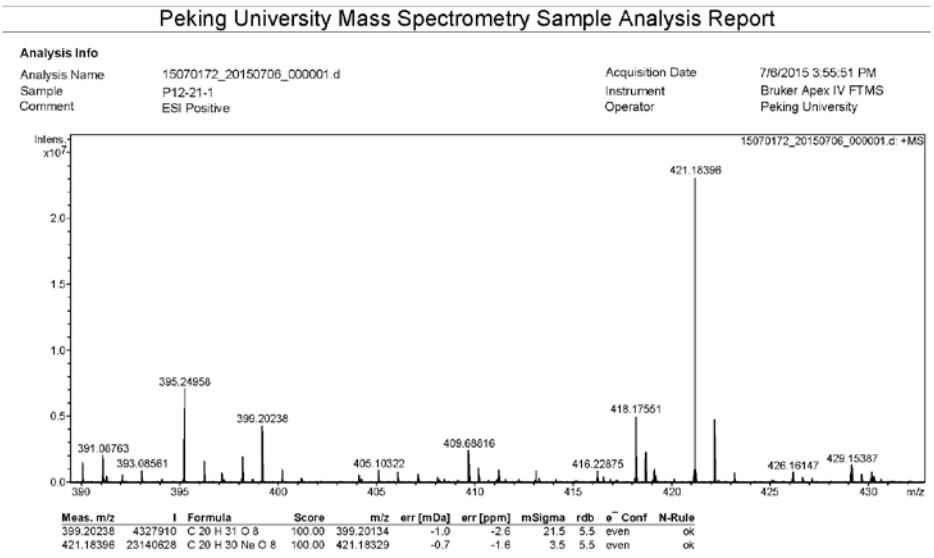


Figure S50. HRESIMS spectrum of **3b**

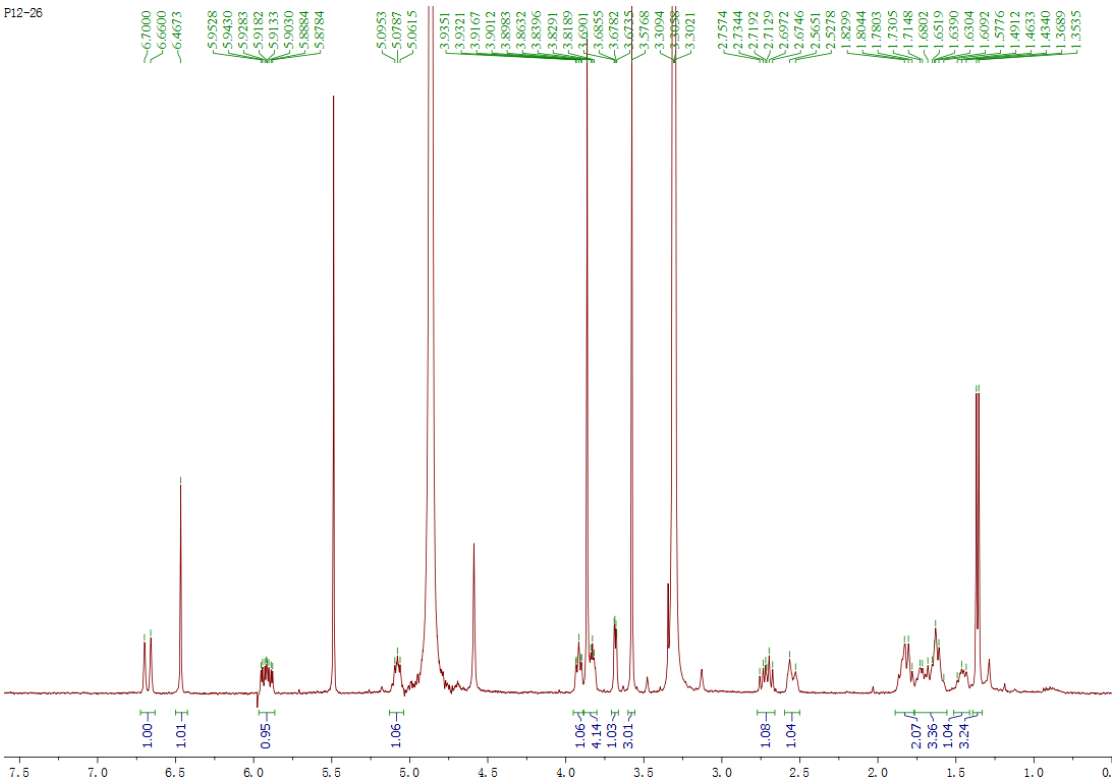


Figure S51. ^{1}H NMR spectrum of **4** (CD_3OD, 400MHz)

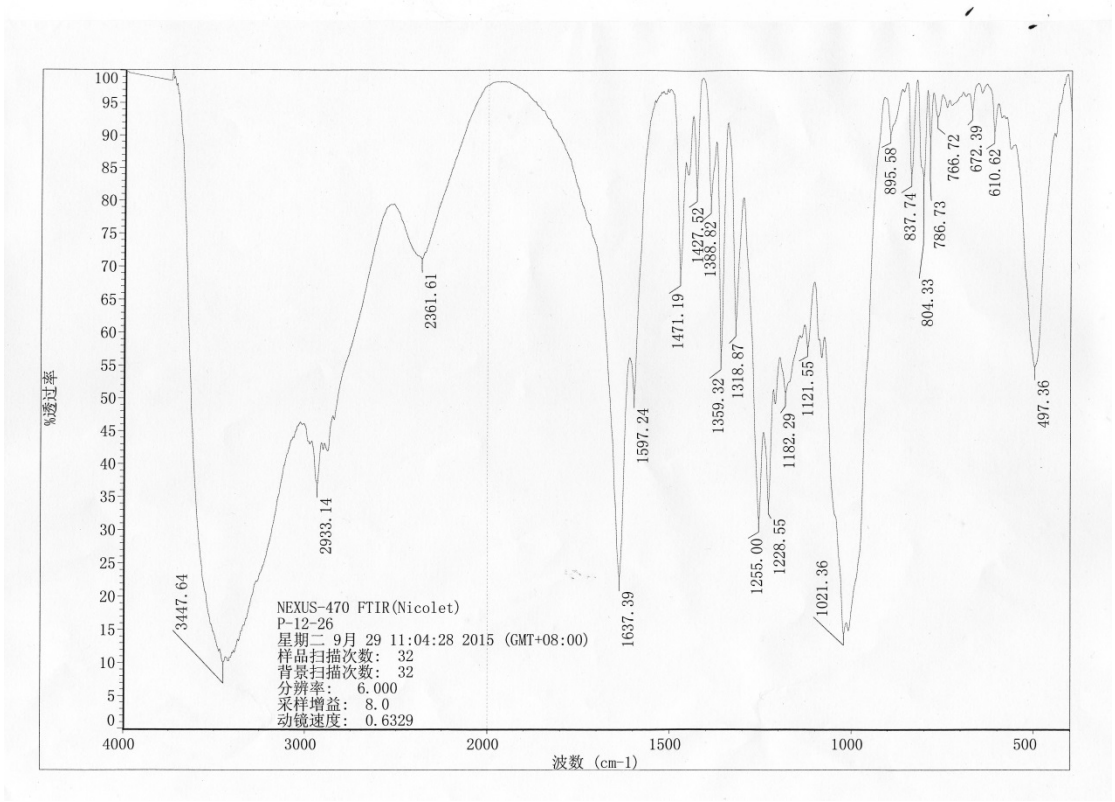
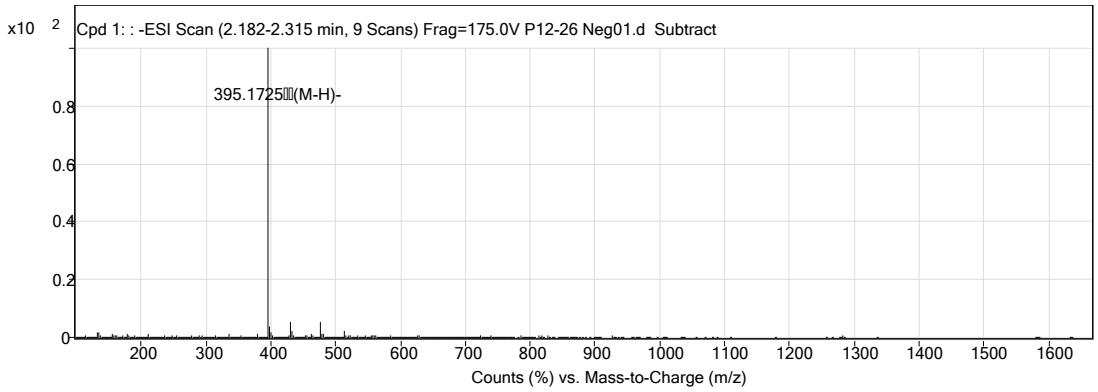


Figure S52. IR spectrum of **4**



MS Spectrum Peak List

m/z	*Calc m/z*	Diff(ppm)	z	Abund	Formula	Ion
395.1725	395.1711	3.43	-1	129127.5	C20H27O8	(M-H)-

Figure S53. HRESIMS spectrum of **4**

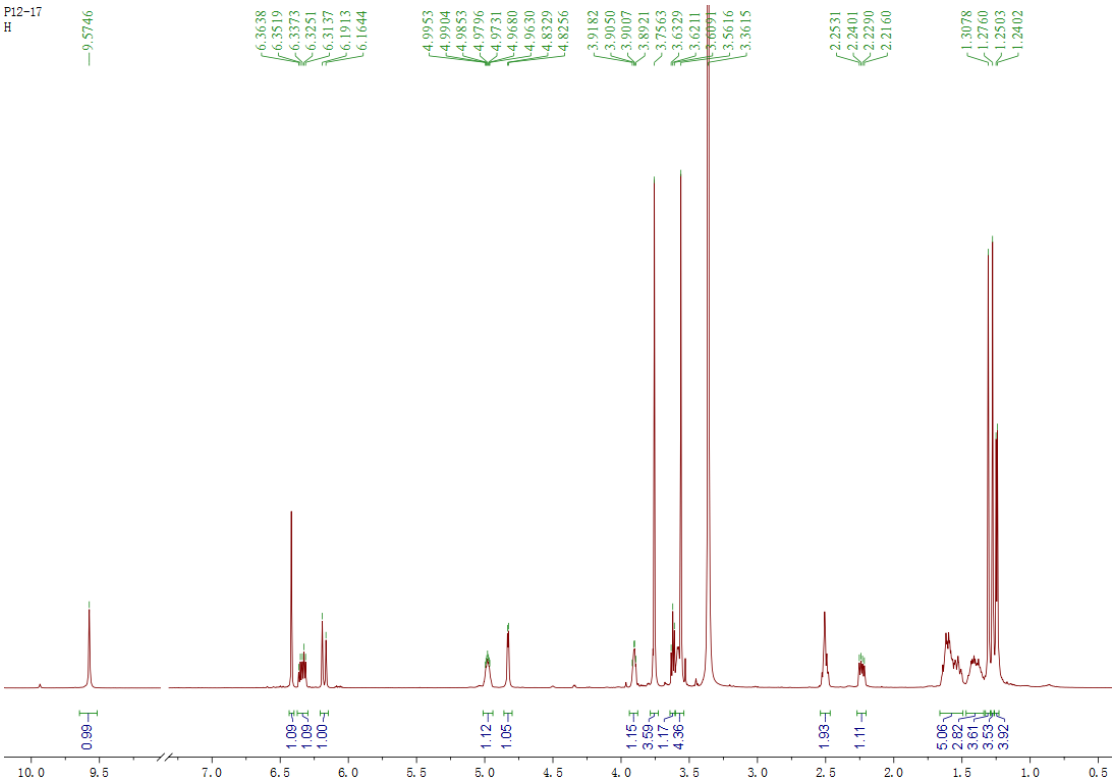


Figure S54. ^{1}H NMR spectrum of **5** (DMSO-d_6, 600MHz)

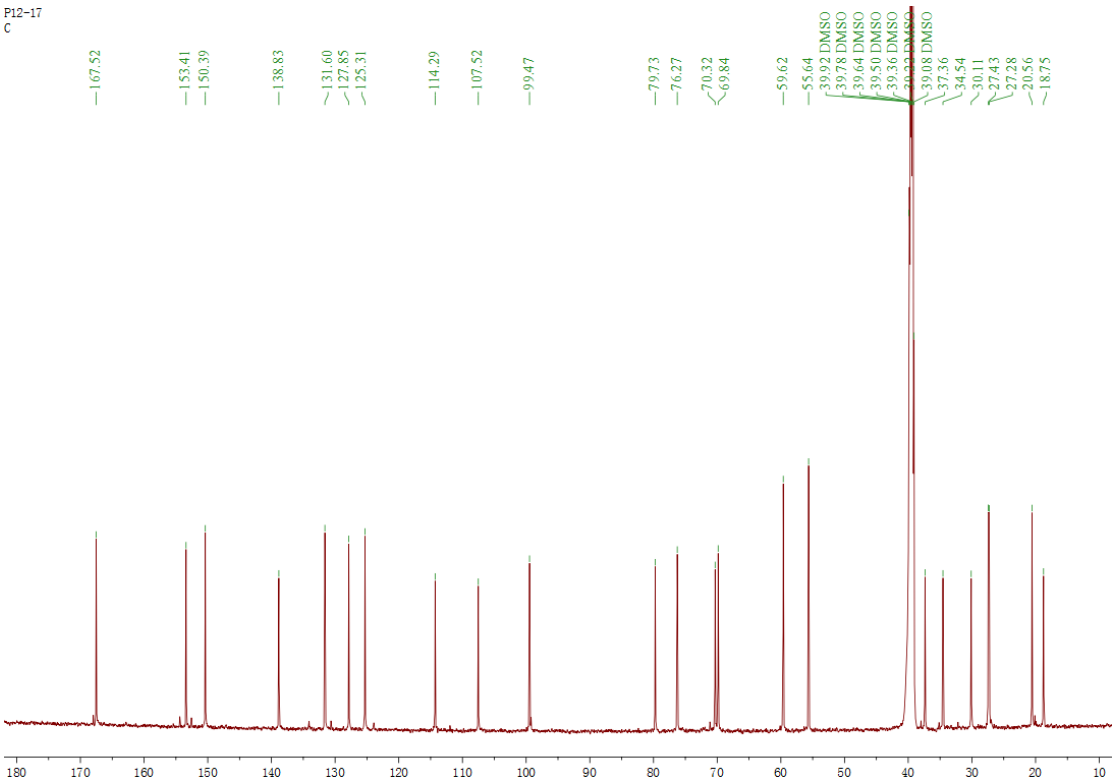


Figure S55. ^{13}C NMR spectrum of **5** (DMSO-d_6, 150MHz)

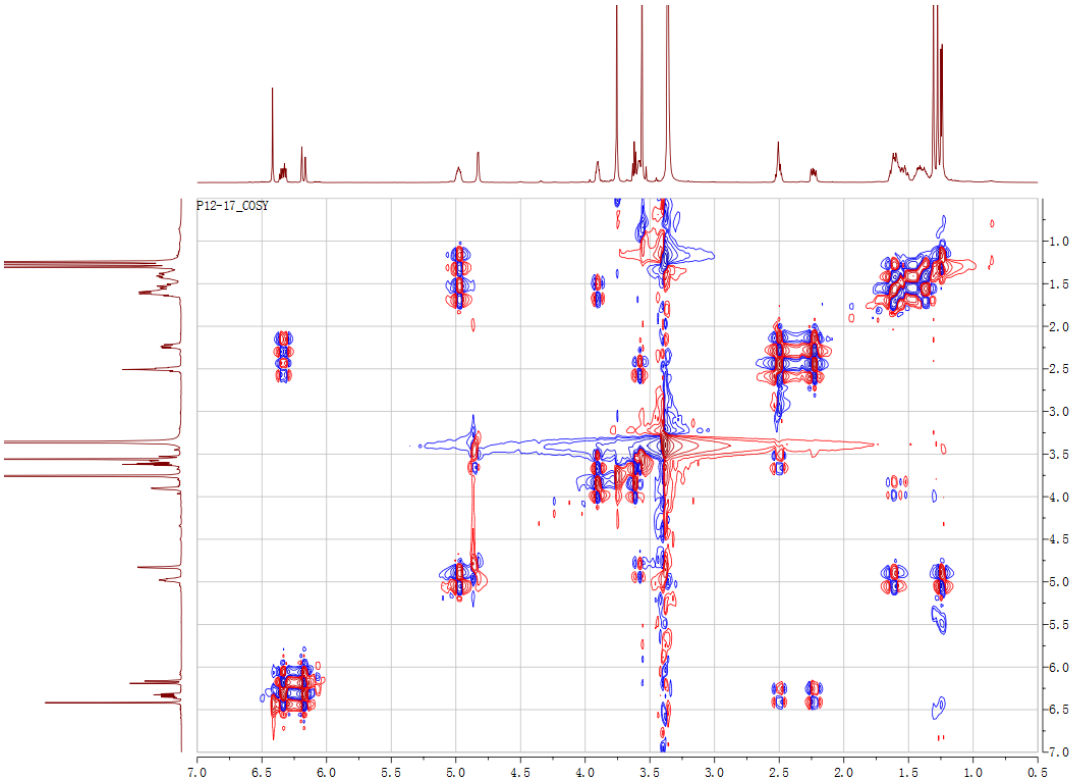


Figure S56. ^{1}H-^{1}H COSY spectrum of **5** (DMSO-d_6)

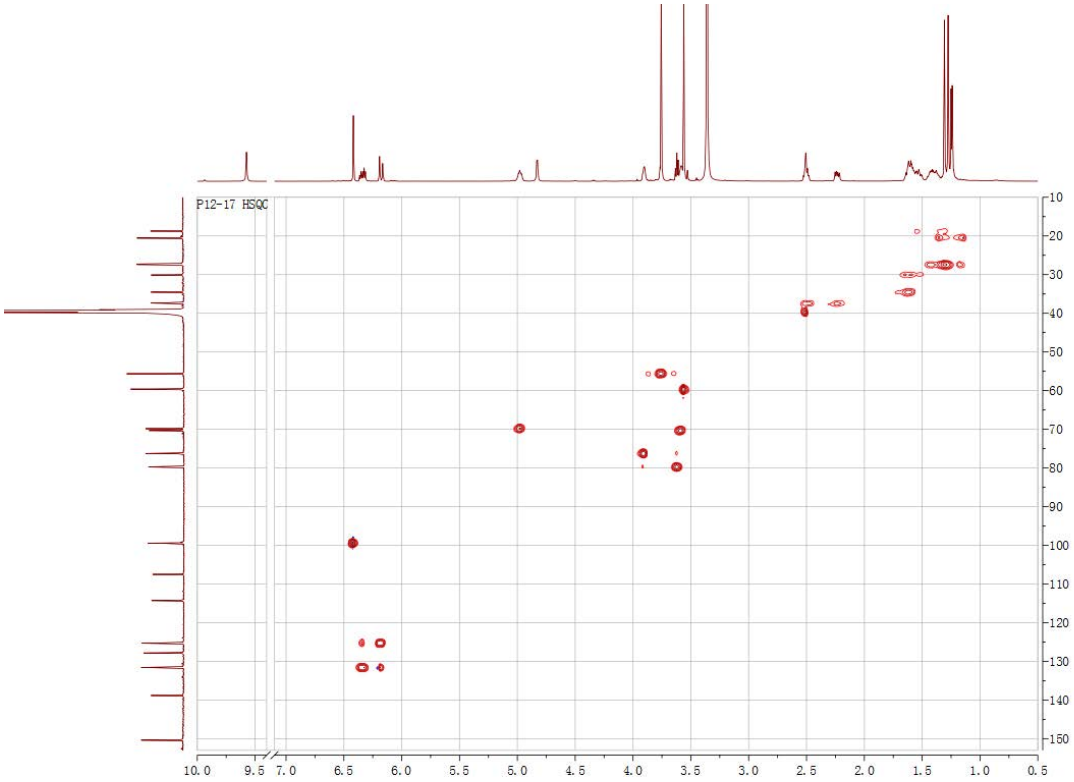


Figure S57. HSQC spectrum of **5** (DMSO-d_6)

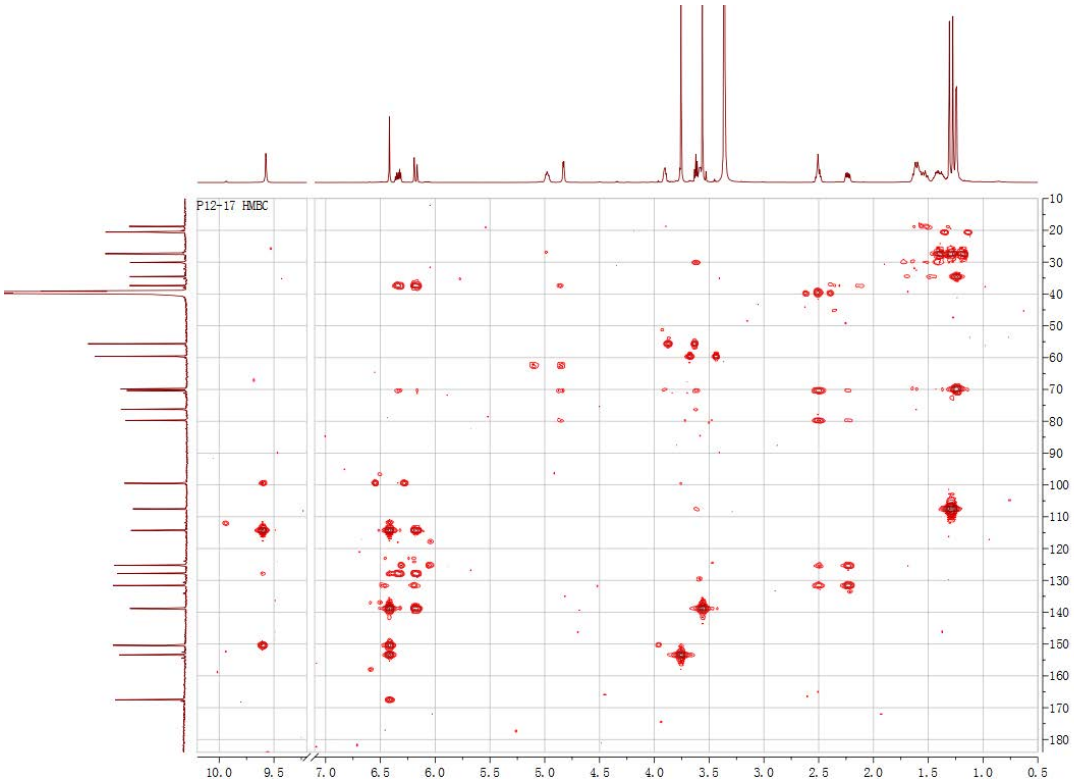


Figure S58. HMBC spectrum of **5** (DMSO-d_6)

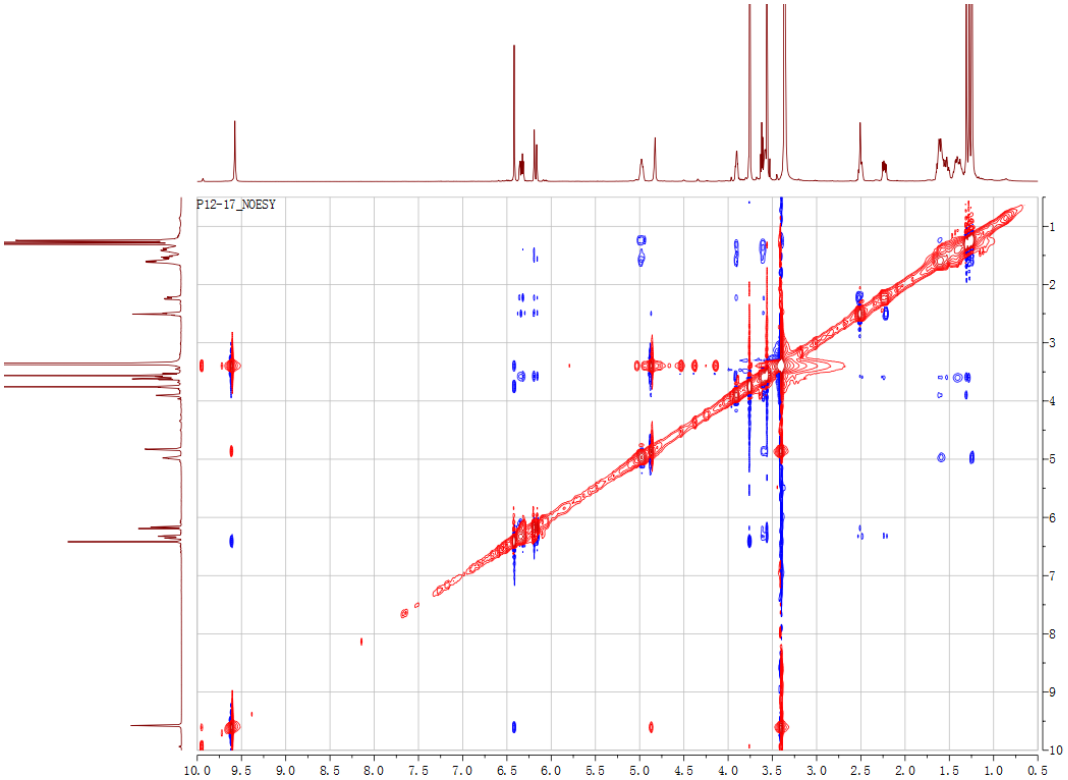


Figure S59. NOESY spectrum of **5** (DMSO-d_6)

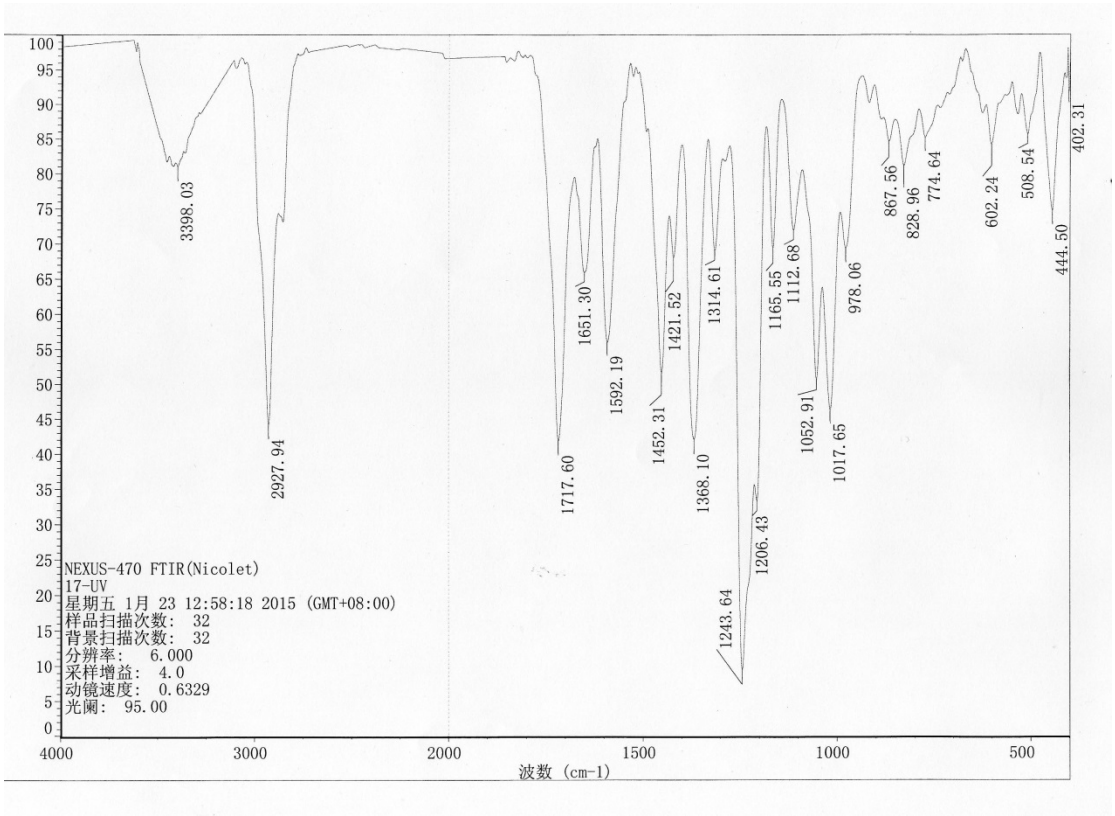


Figure S60. IR spectrum of **5**

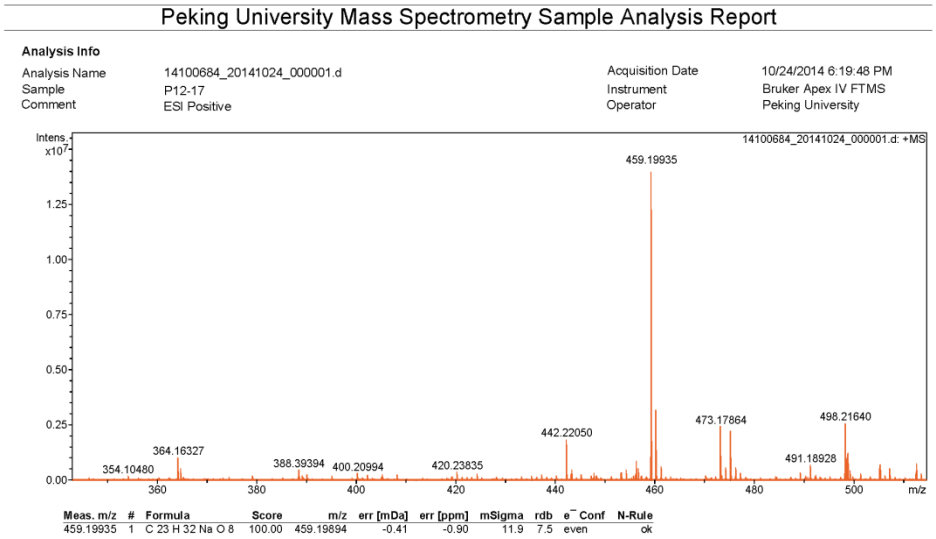


Figure S61. HRESIMS spectrum of **5**

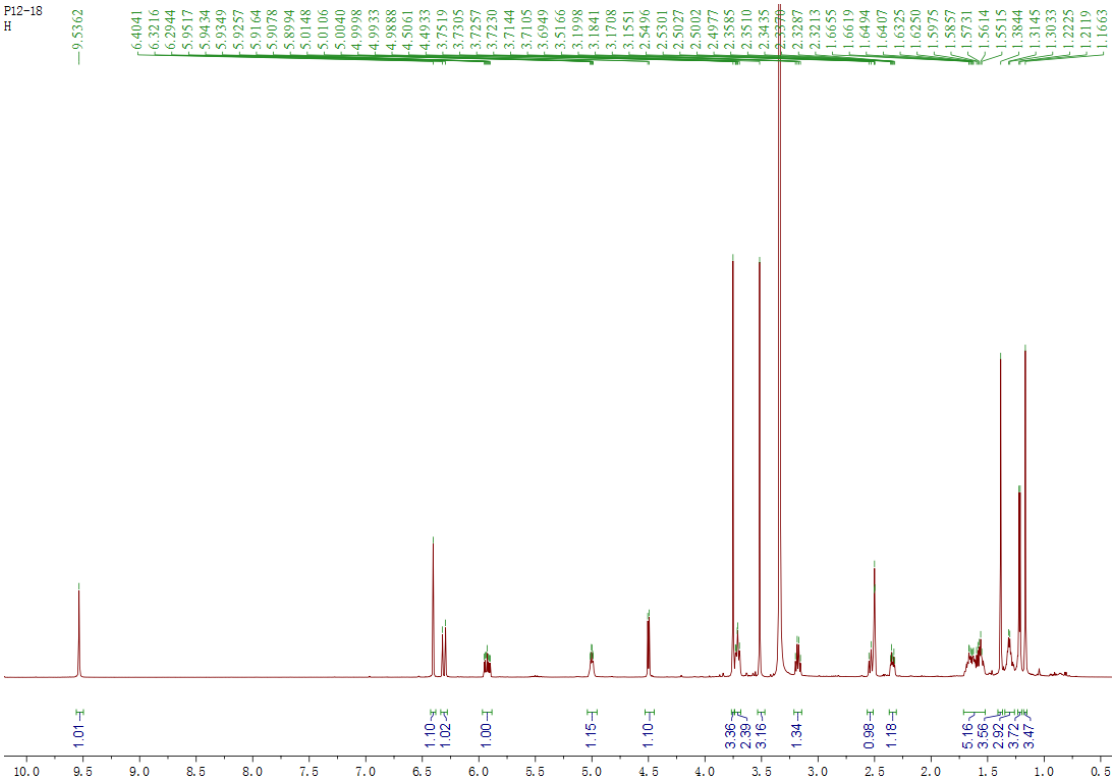


Figure S62. ^{1}H NMR spectrum of **6** (DMSO-d_6, 600MHz)

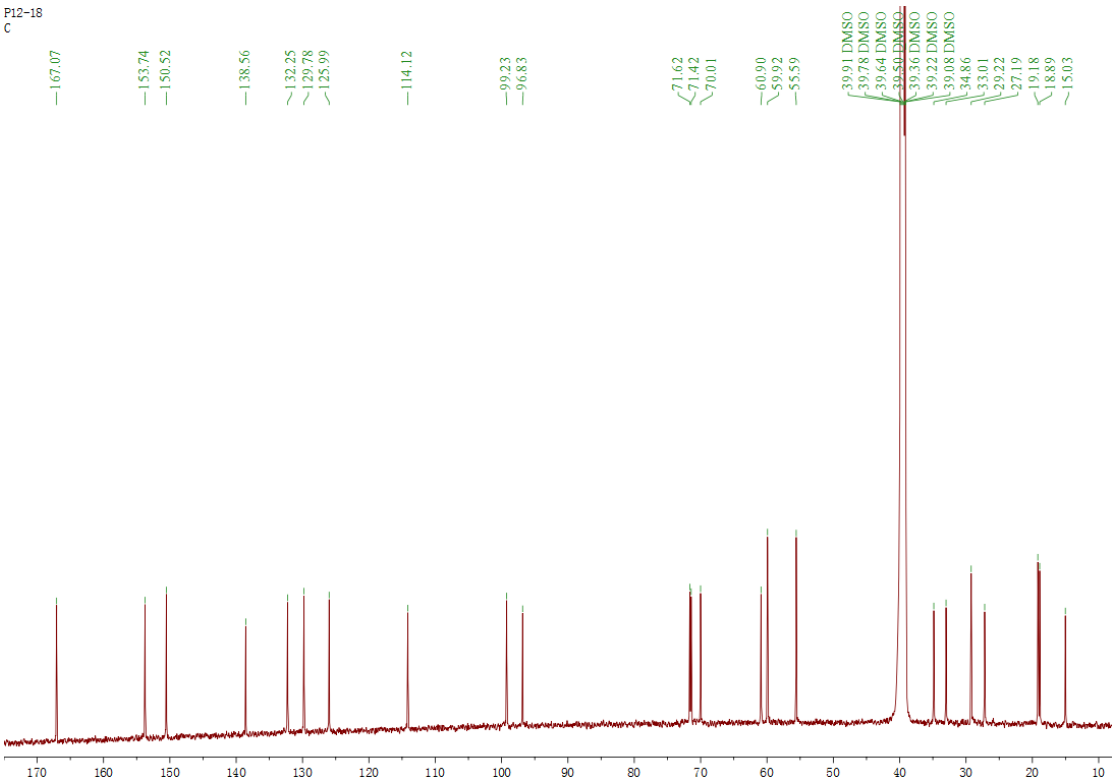


Figure S63. ^{13}C NMR spectrum of **6** (DMSO-d_6, 150MHz)

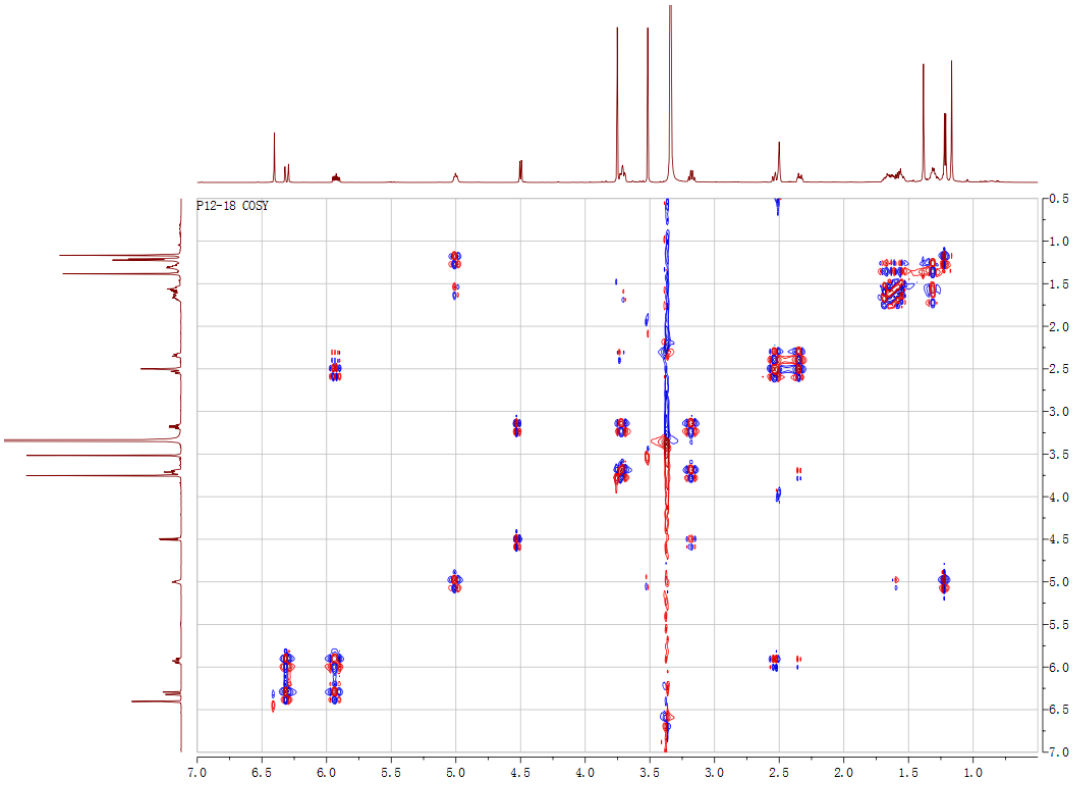


Figure S64. ^{1}H-^{1}H COSY spectrum of **6** (DMSO-d_6)

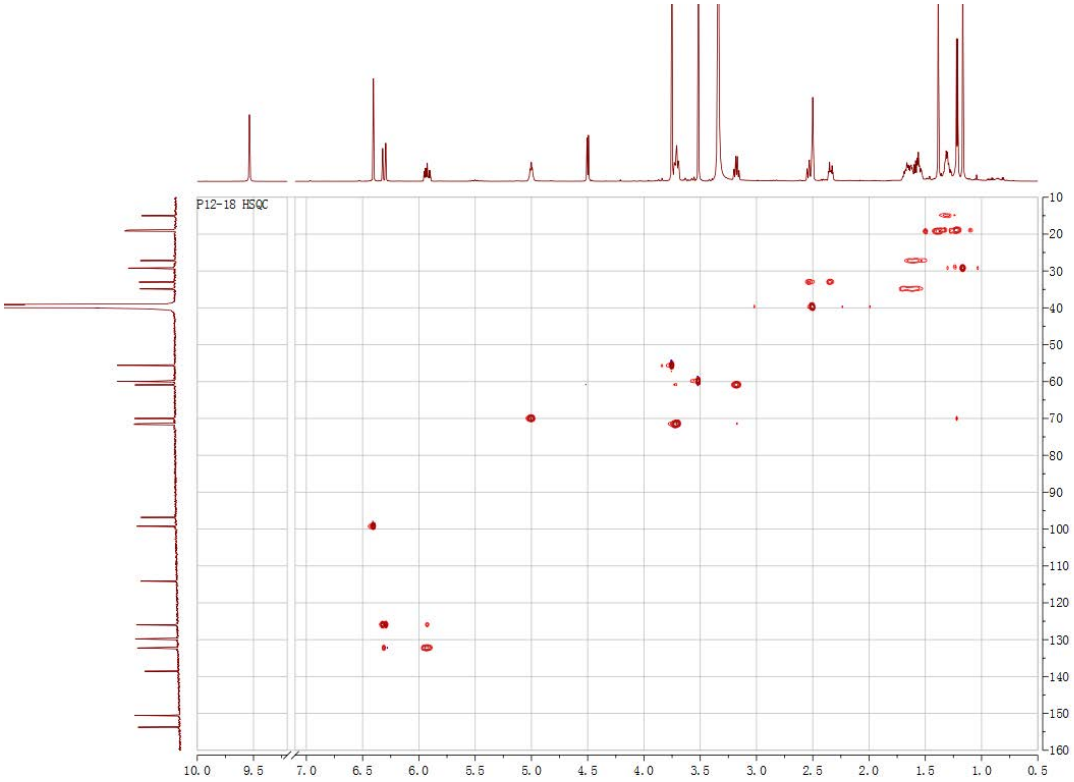


Figure S65. HSQC spectrum of **6** (DMSO-d_6)

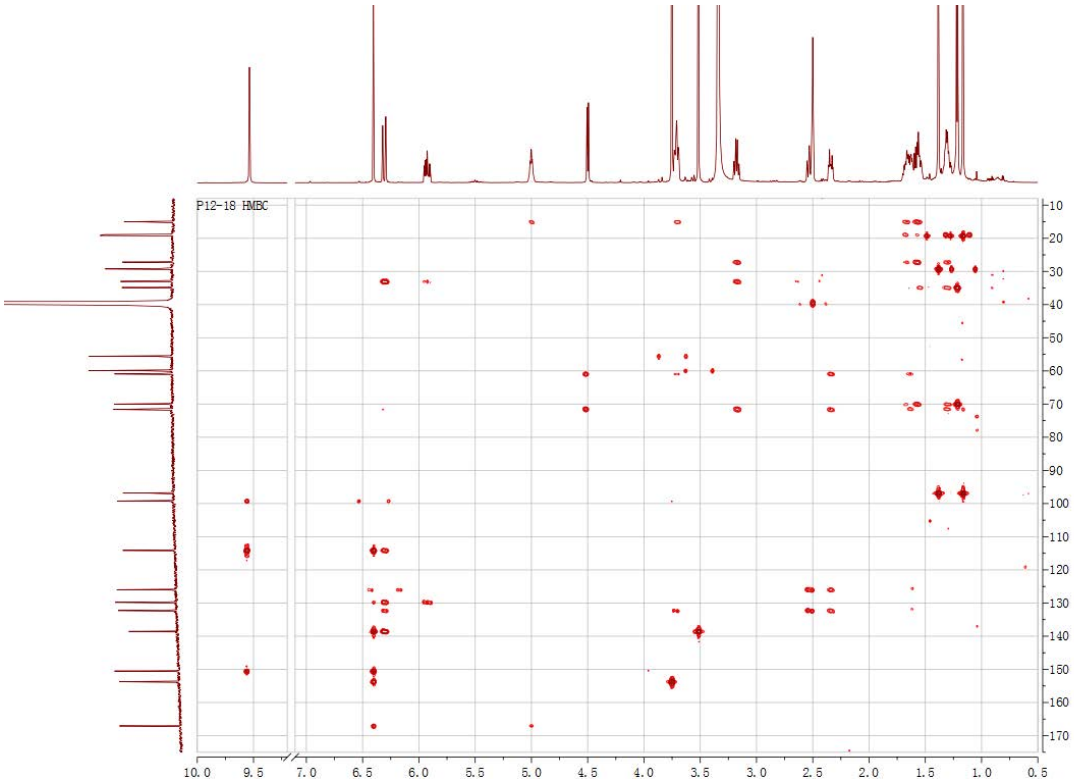


Figure S66. HMBC spectrum of **6** (DMSO-d_6)

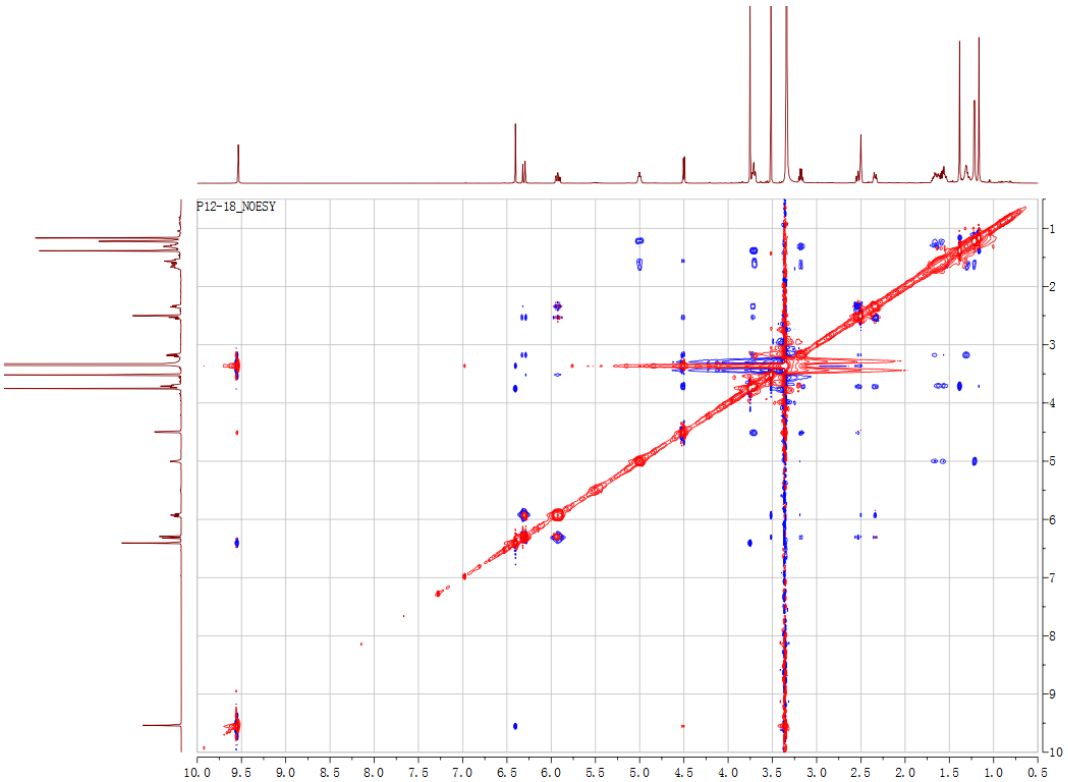


Figure S67. NOESY spectrum of **6** (DMSO-d_6)

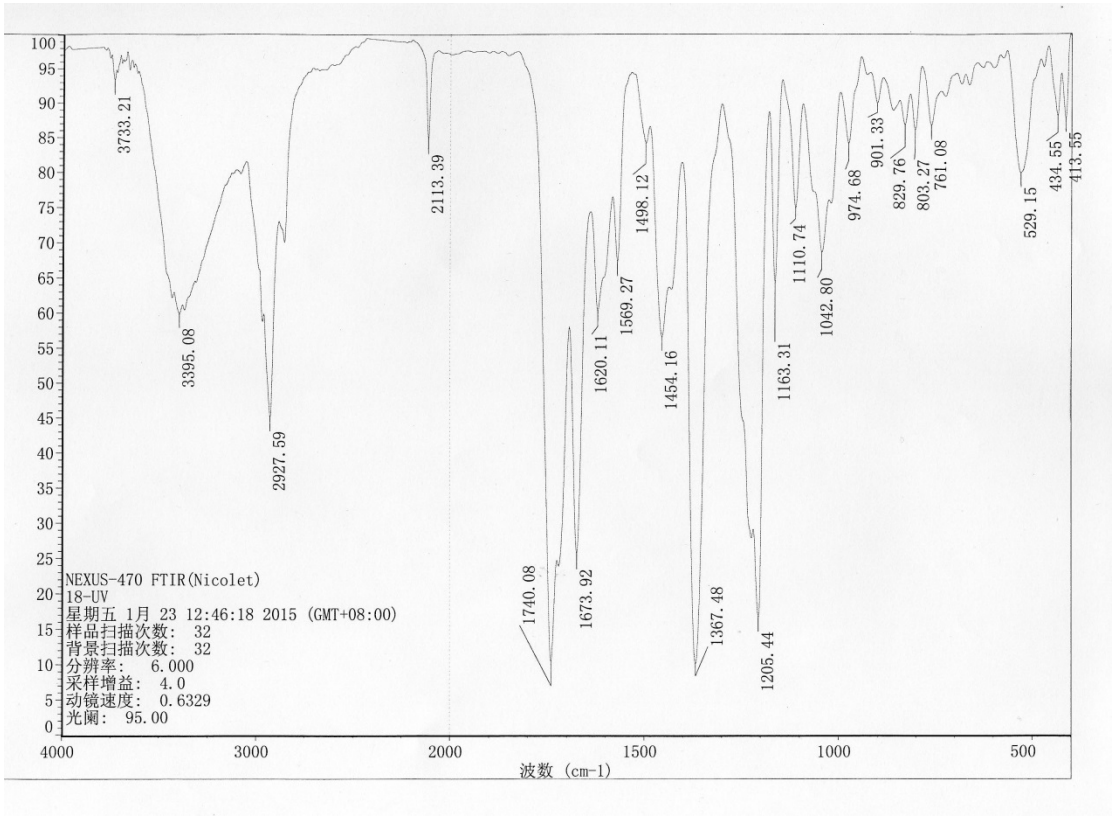


Figure S68. IR spectrum of **6**

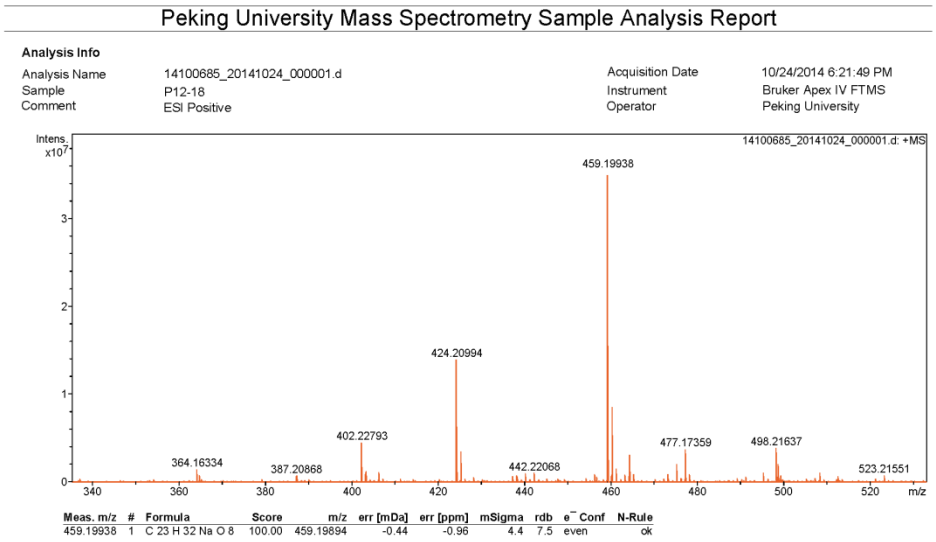


Figure S69. HRESIMS spectrum of **6**