Electronic Supplementary Information (ESI)

Heptaketides from the Endophytic Fungus *Pleosporales* sp. F46 and Their Antifungal and Cytotoxic Activities

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TABLE OF CONTENTS

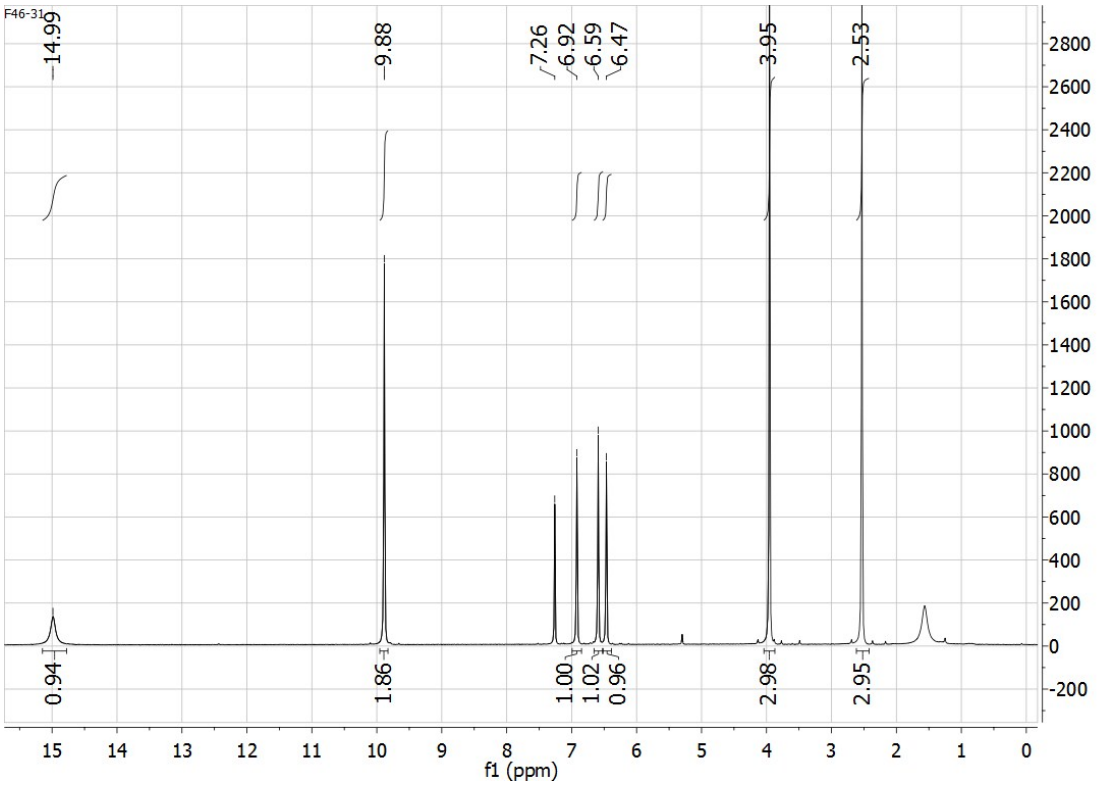

Figure S1. ^{1}H NMR spectrum (400 MHz) of **1** in $CDCl_3$.

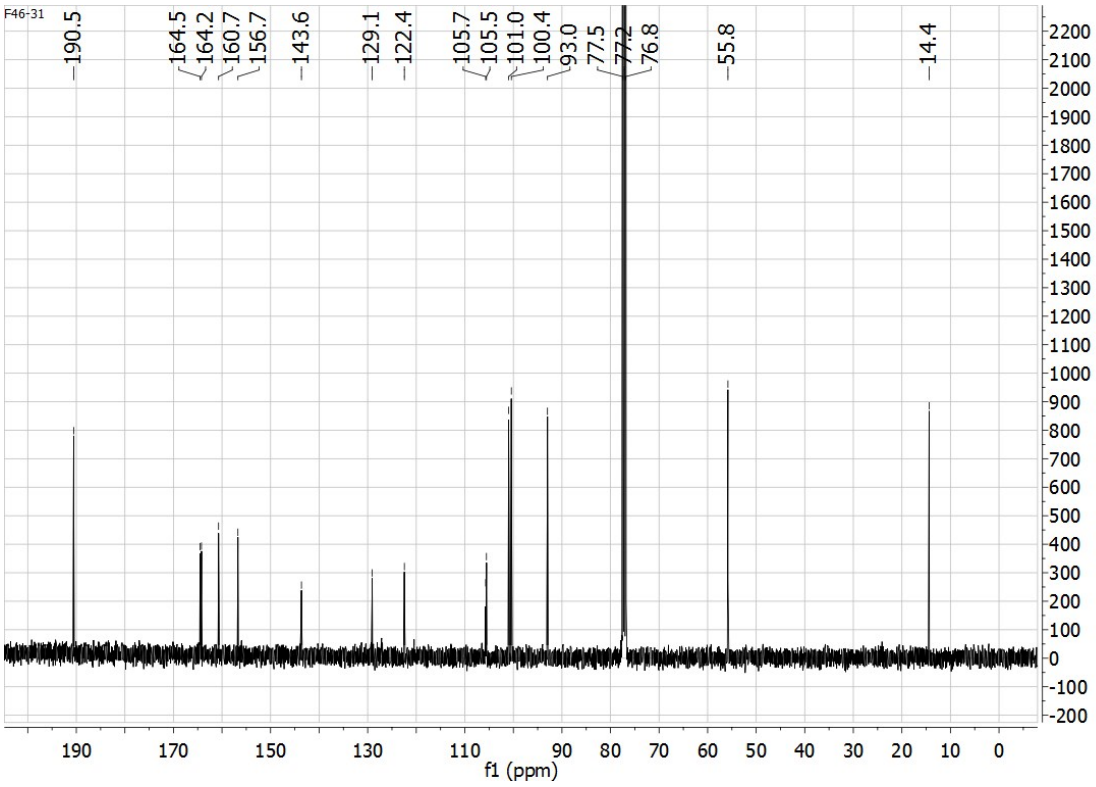

Figure S2. ^{13}C NMR spectrum (100 MHz) of **1** in $CDCl_3$.

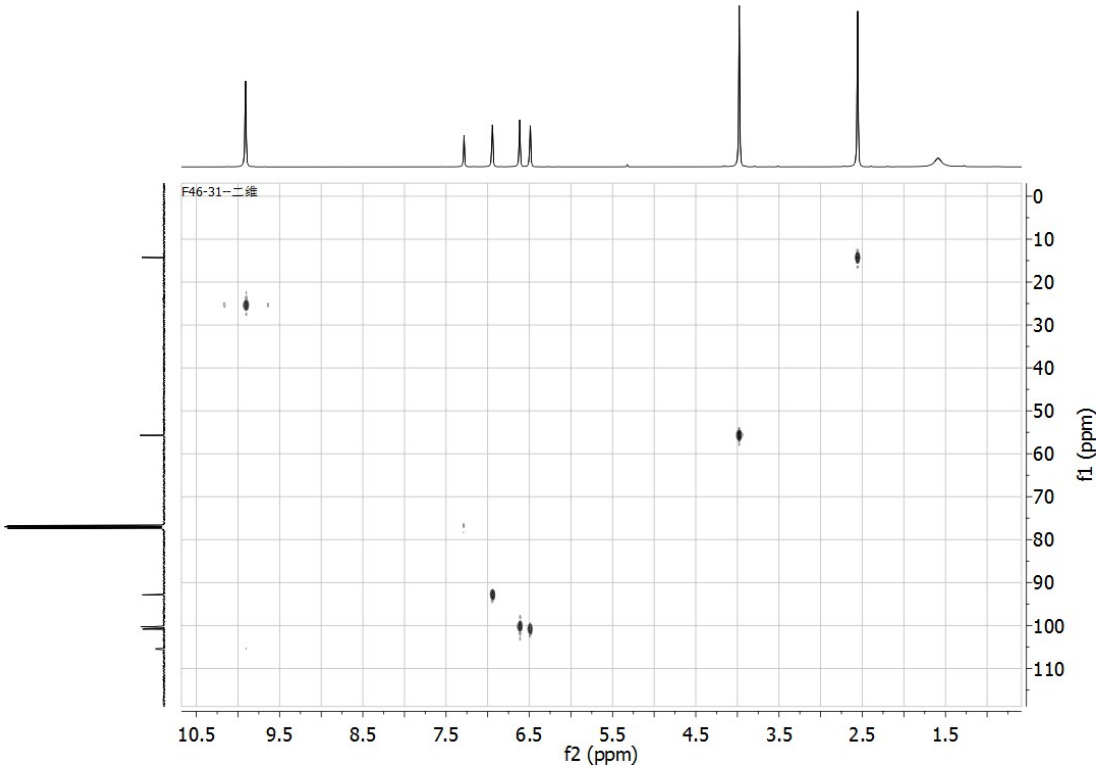

Figure S3. HSQC spectrum (400 MHz) of **1** in $CDCl_3$.

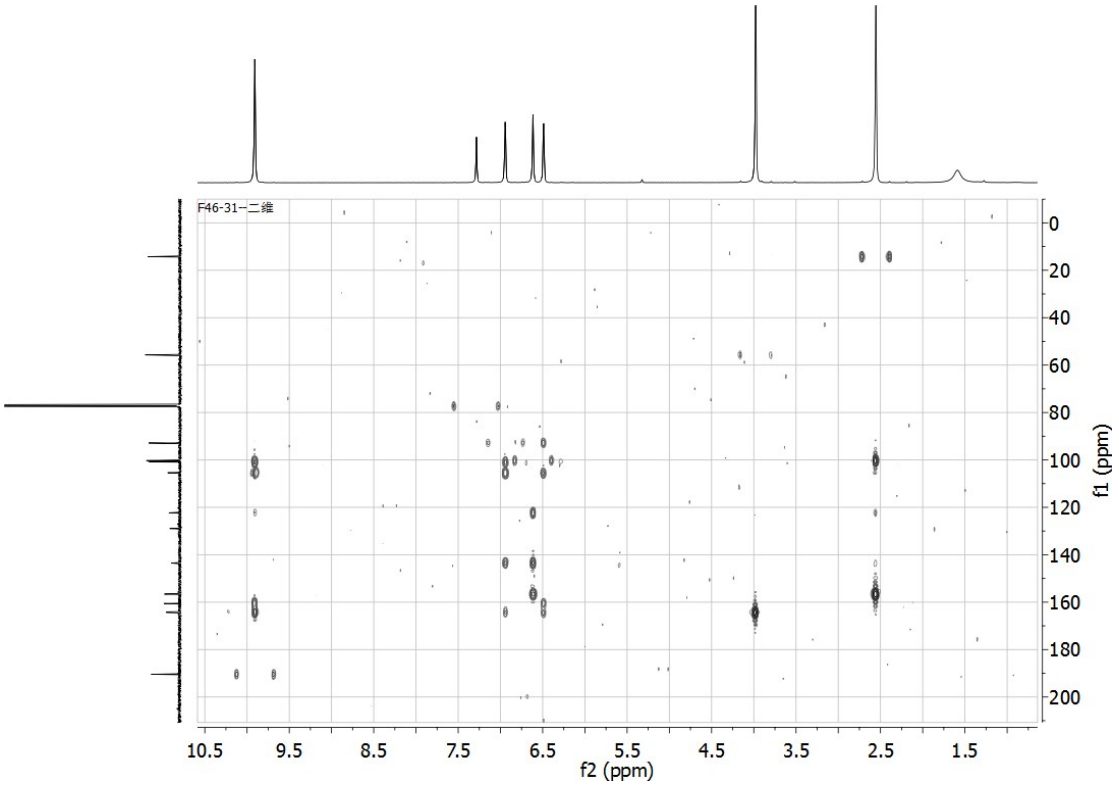

Figure S4. HMBC spectrum (400 MHz) of **1** in $CDCl_3$.

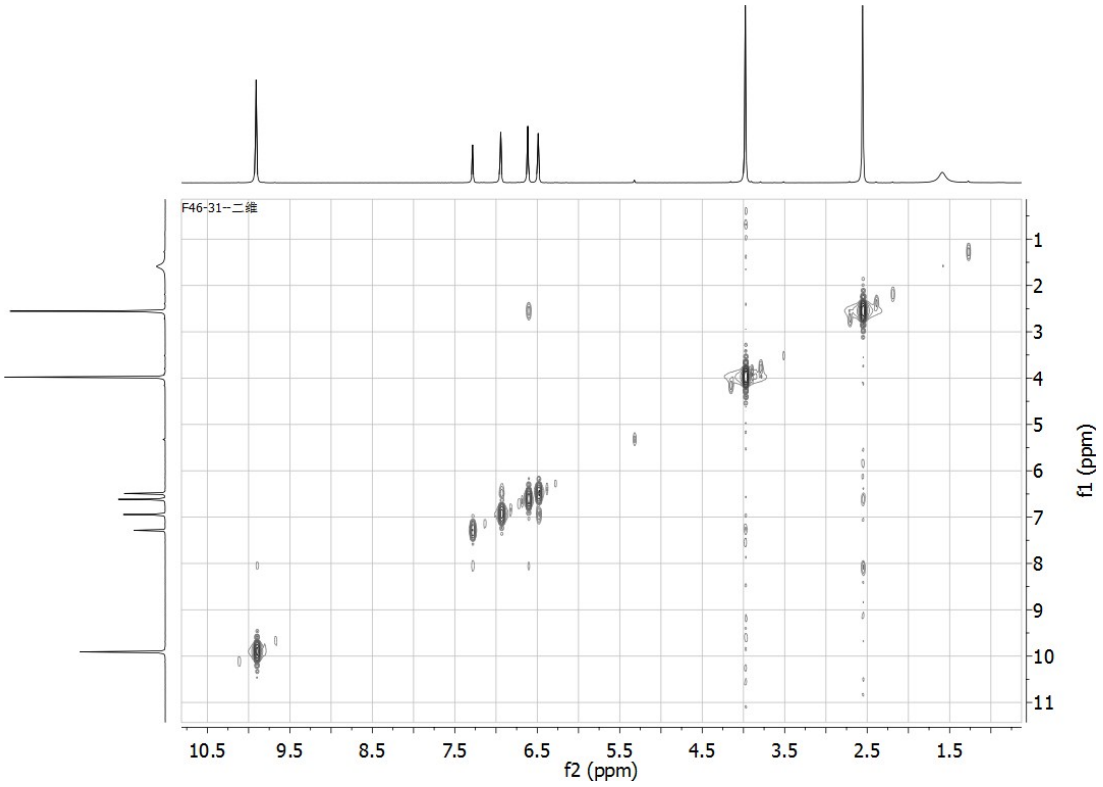

Figure S5. ^{1}H-^{1}H COSY spectrum (400 MHz) of **1** in $CDCl_3$.

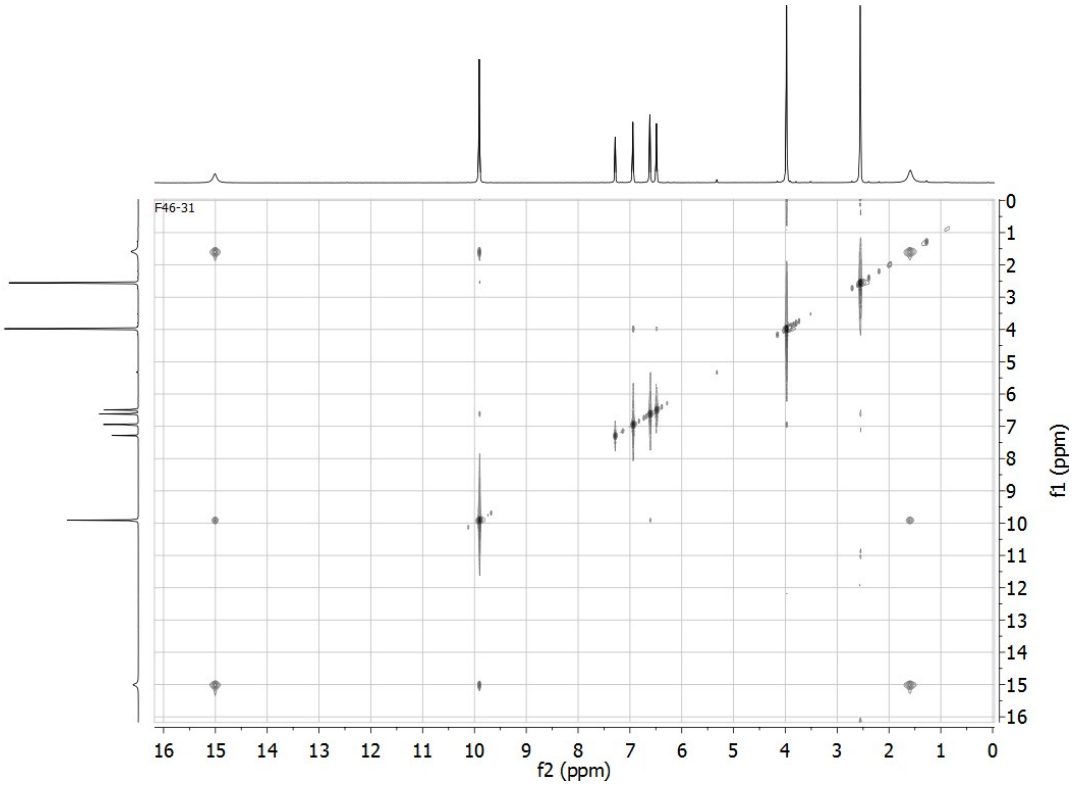

Figure S6. NOESY spectrum (400 MHz) of **1** in $CDCl_3$.

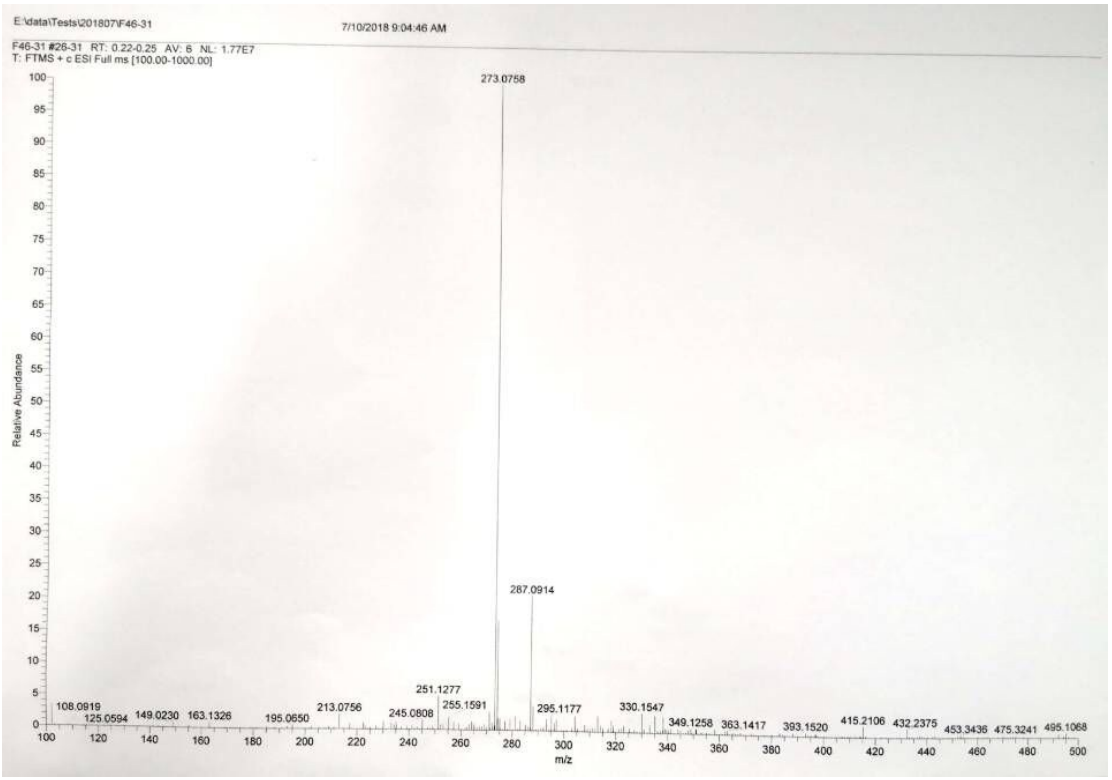

Figure S7. ESIHRMS spectrum of **1**.

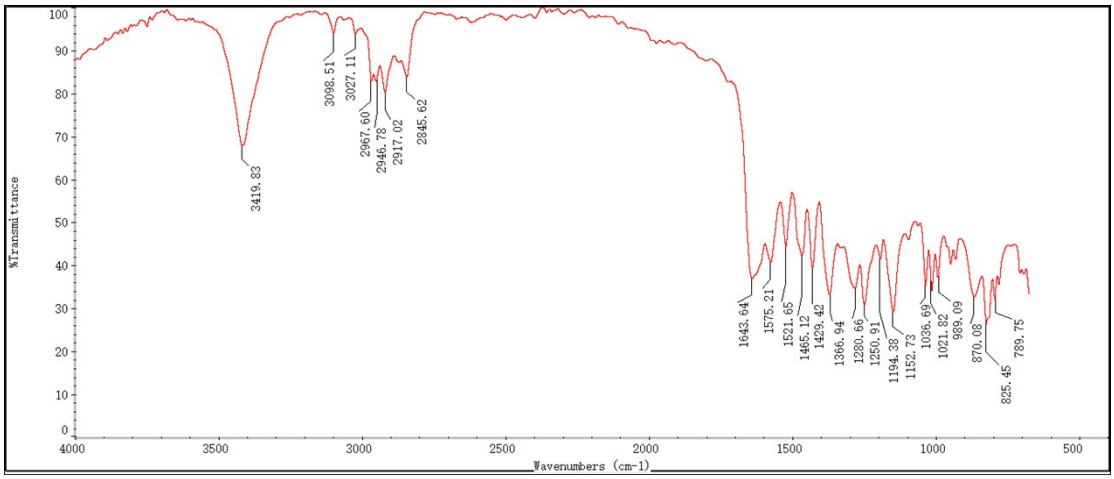

Figure S8. IR spectrum of **1**.

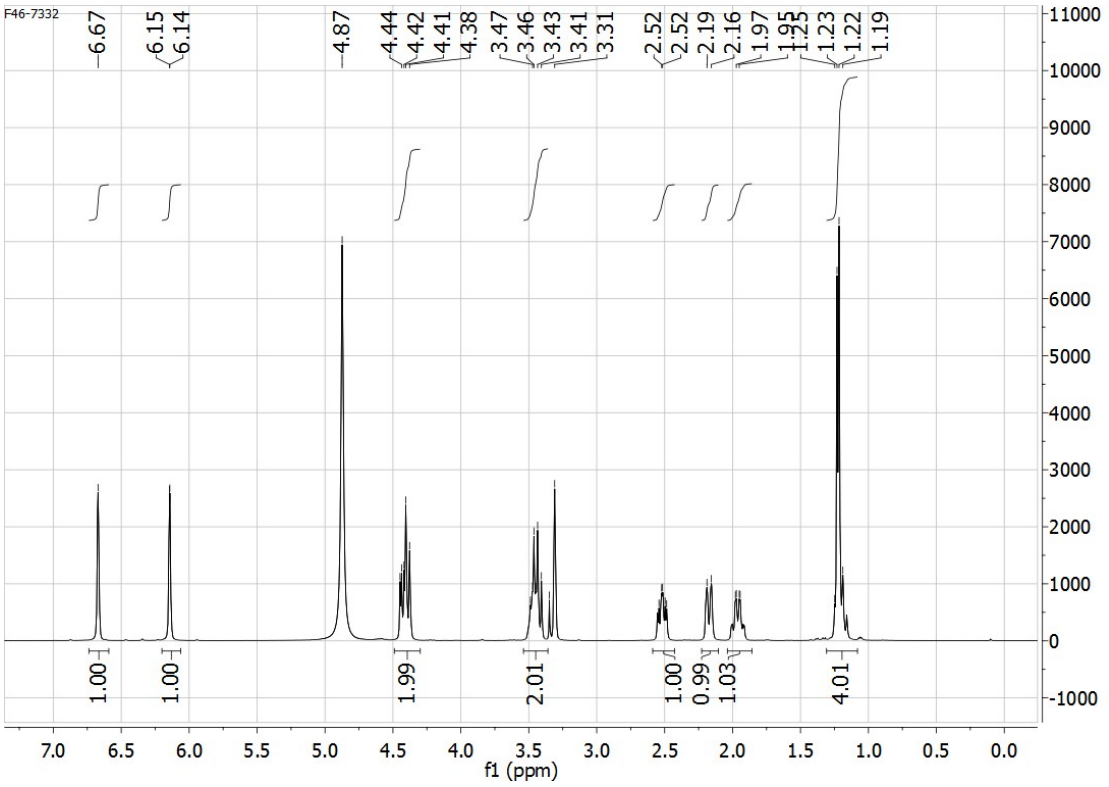

Figure S9. ^{1}H NMR spectrum (400 MHz) of **2** in CD_3OD.

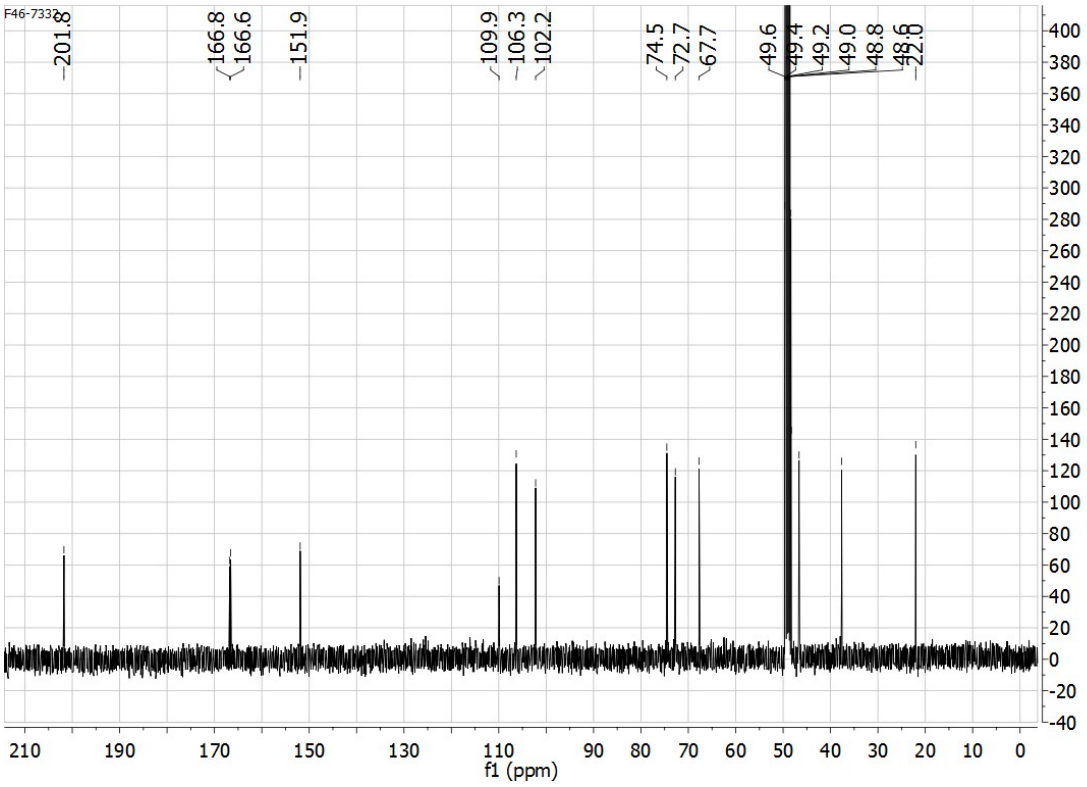

Figure S10. ^{13}C NMR spectrum (100 MHz) of **2** in CD_3OD.

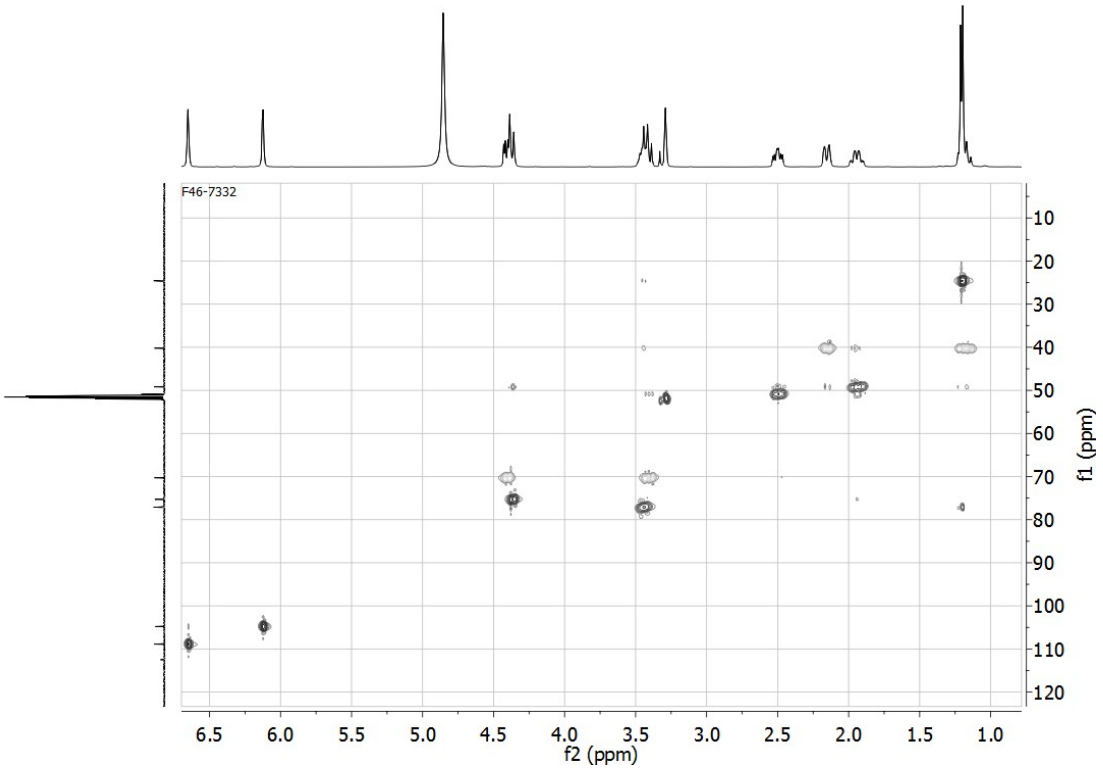

Figure S11. HSQC spectrum (400 MHz) of **2** in CD_3OD.

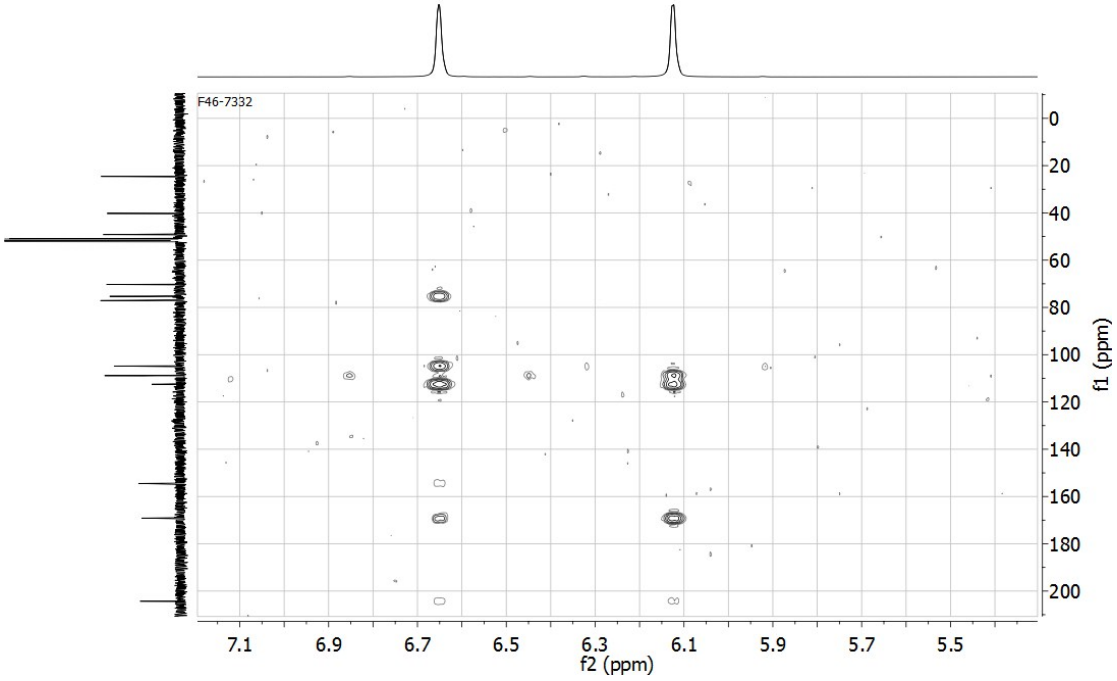

Figure S12. HMBC spectrum (400 MHz) of **2** in CD_3OD.

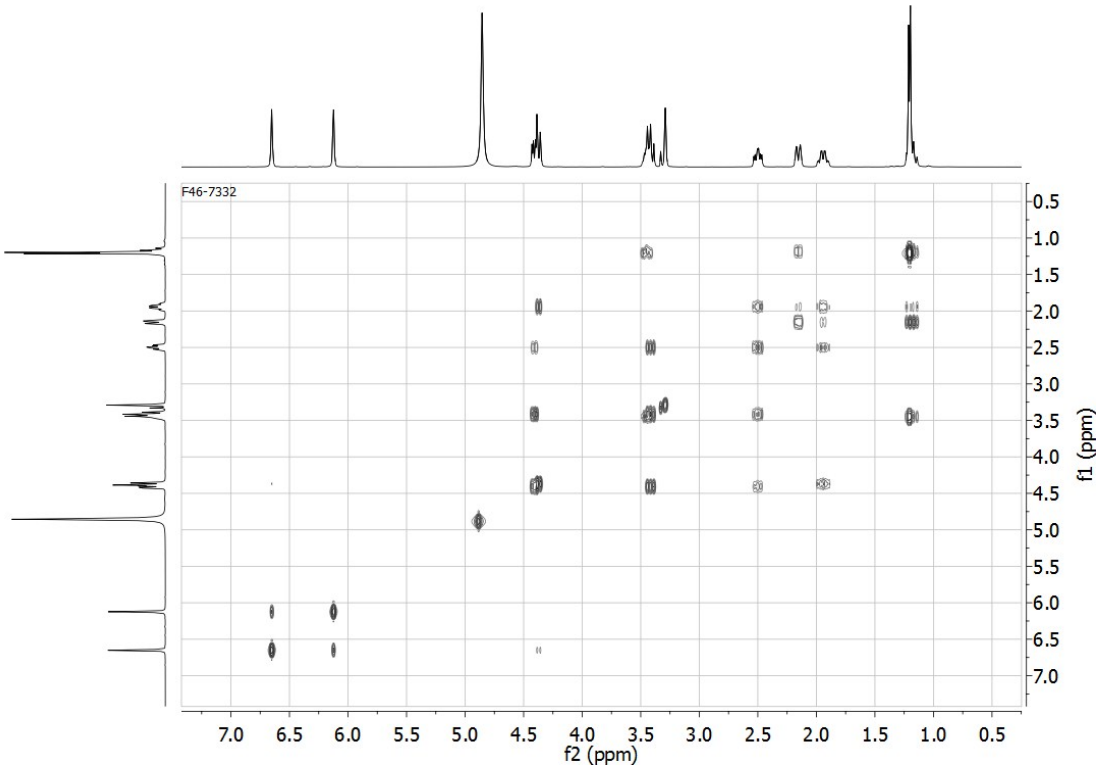

Figure S13. ^{1}H-^{1}H COSY spectrum (400 MHz) of **2** in CD_3OD.

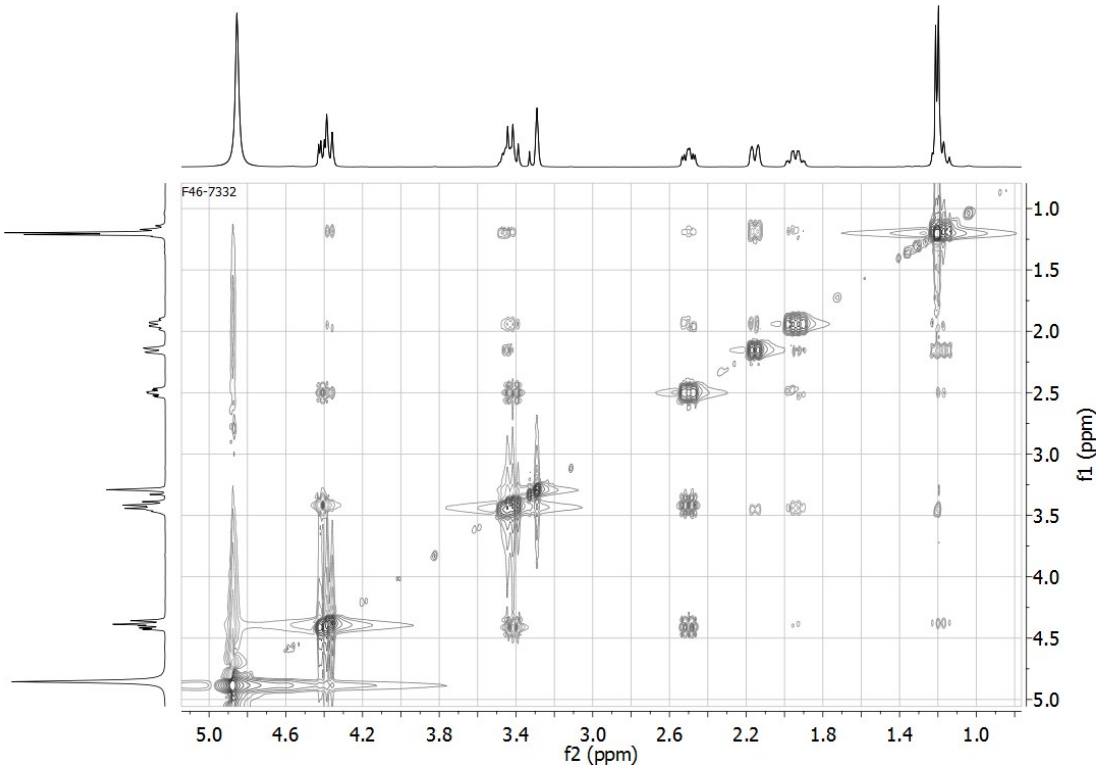

Figure S14. NOESY spectrum (400 MHz) of **2** in CD_3OD.

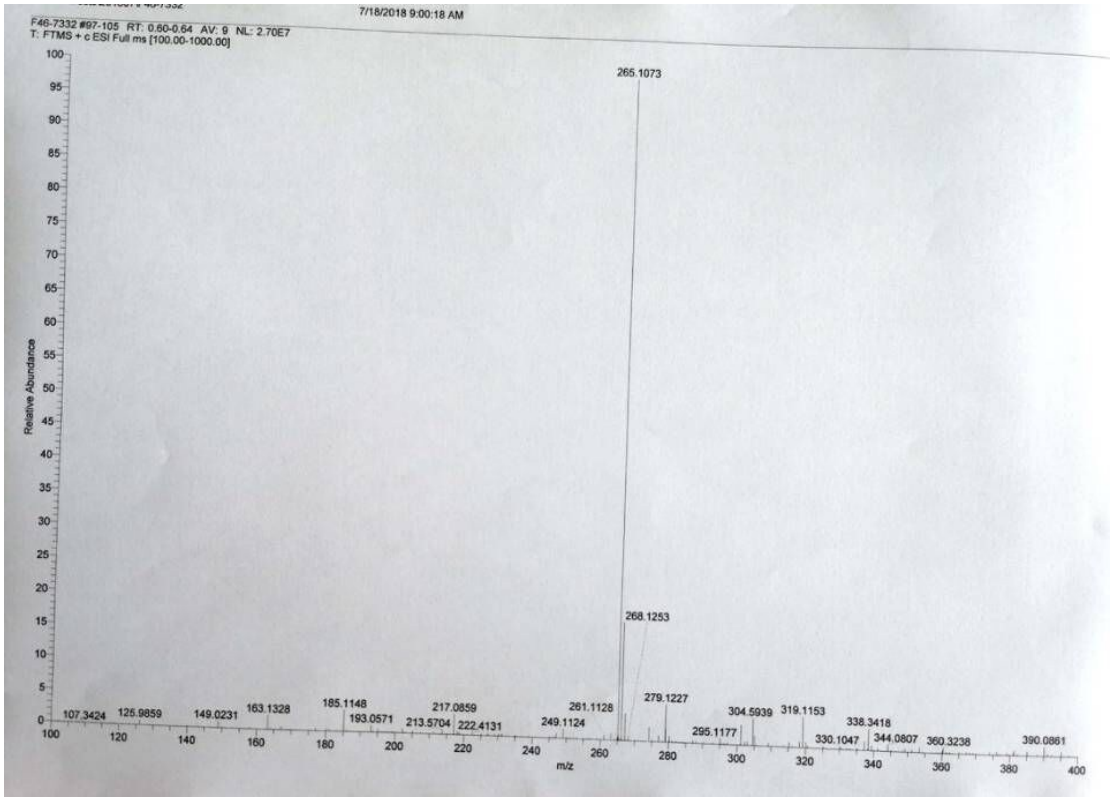

Figure S15. ESIHRMS spectrum of **2**.

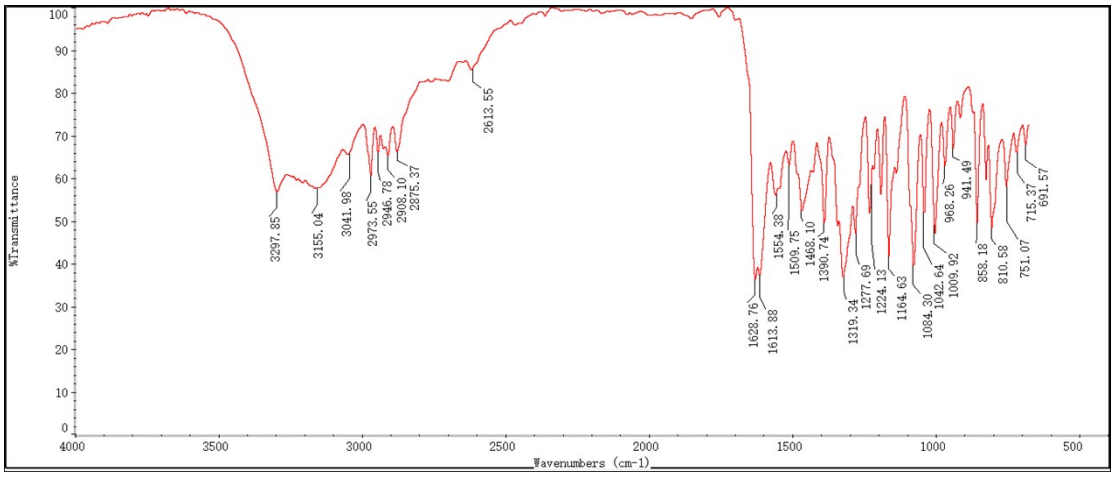

Figure S16. IR spectrum of **2**.

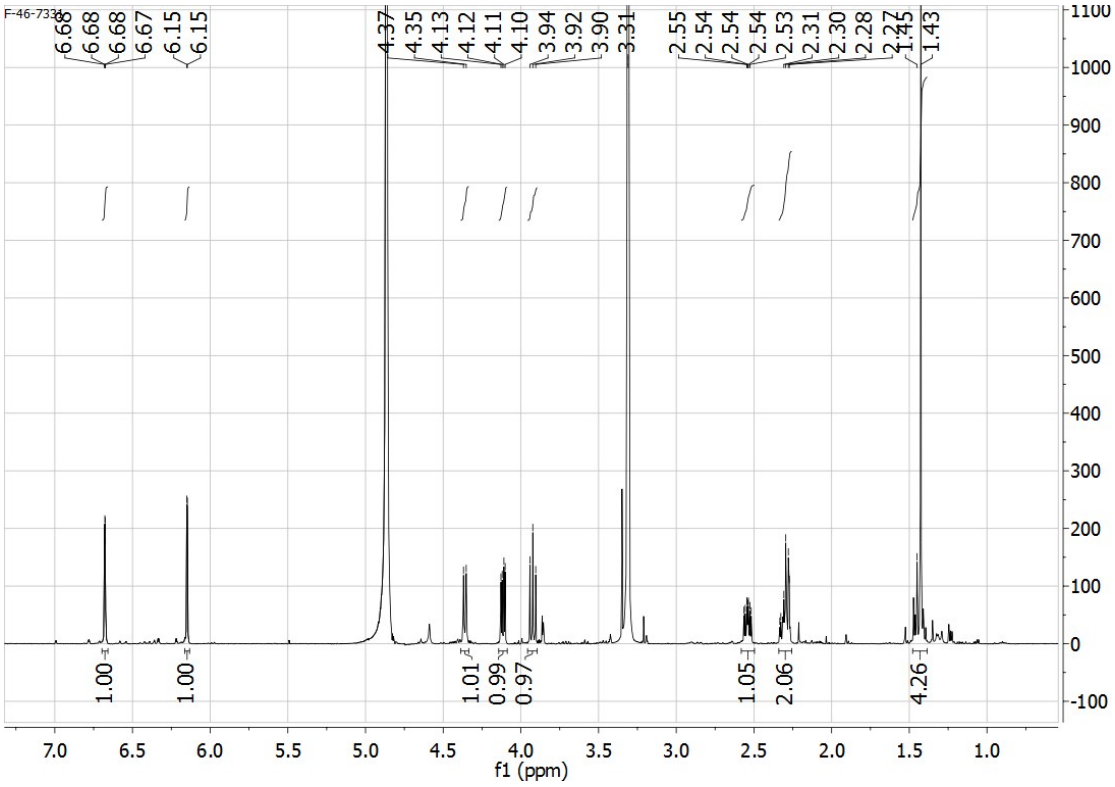

Figure S17. ^{1}H NMR spectrum (600 MHz) of **3** in CD_3OD.

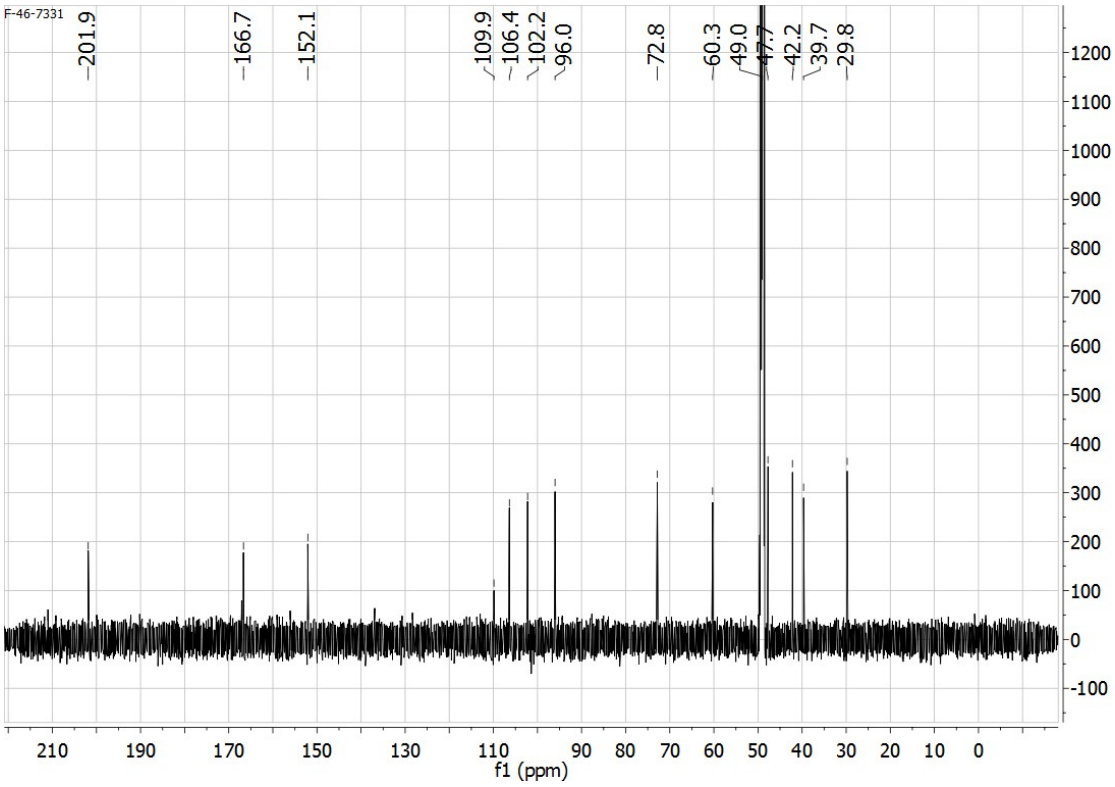

Figure S18. ^{13}C NMR spectrum (150 MHz) of **3** in CD_3OD.

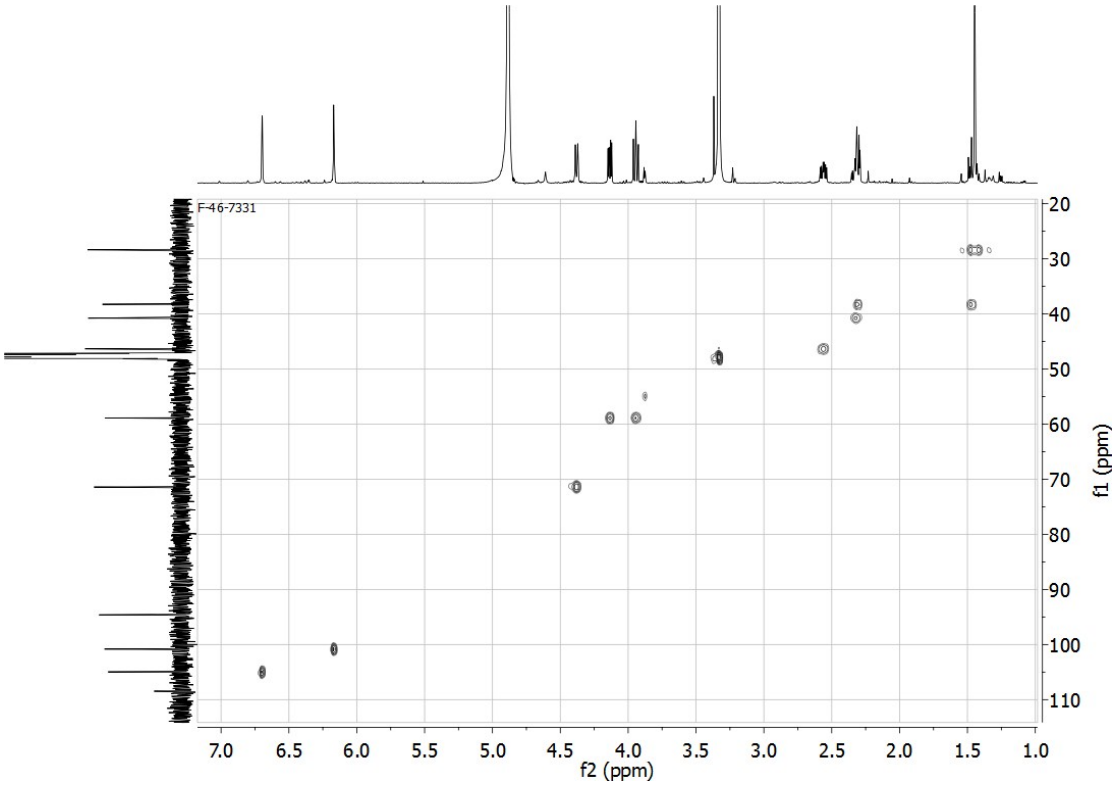

Figure S19. HSQC spectrum (600 MHz) of **3** in CD_3OD.

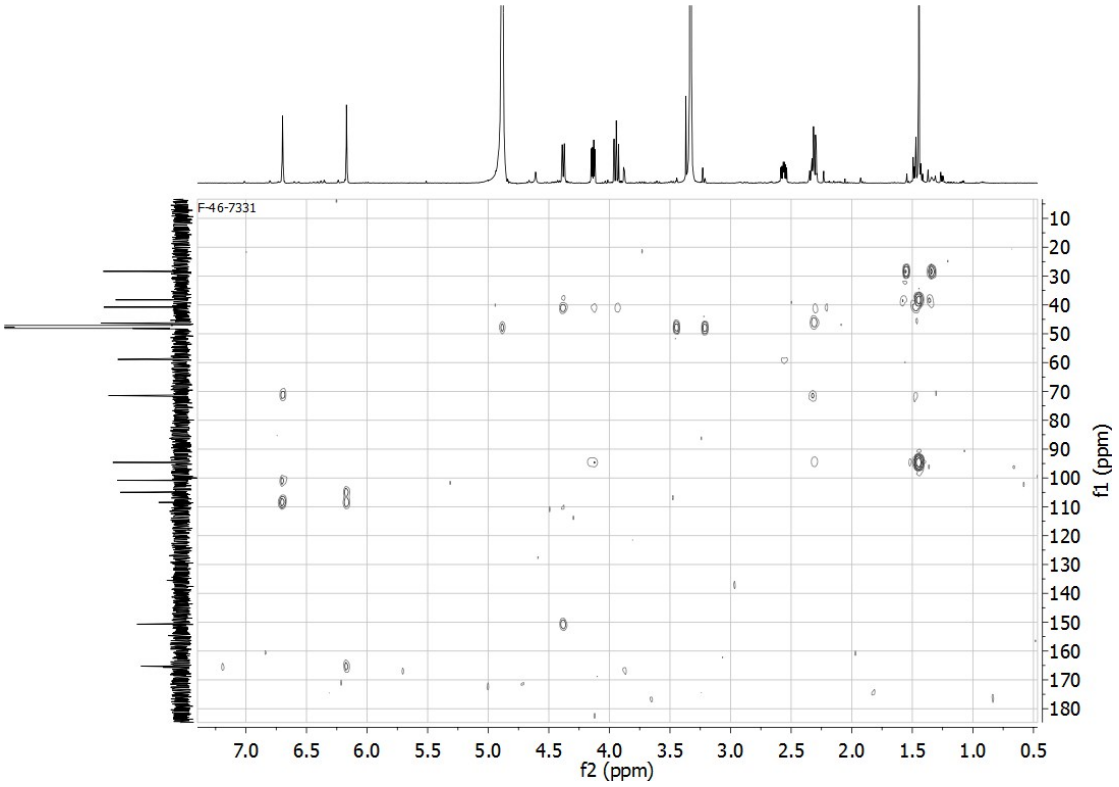

Figure S20. HMBC spectrum (600 MHz) of **3** in CD_3OD.

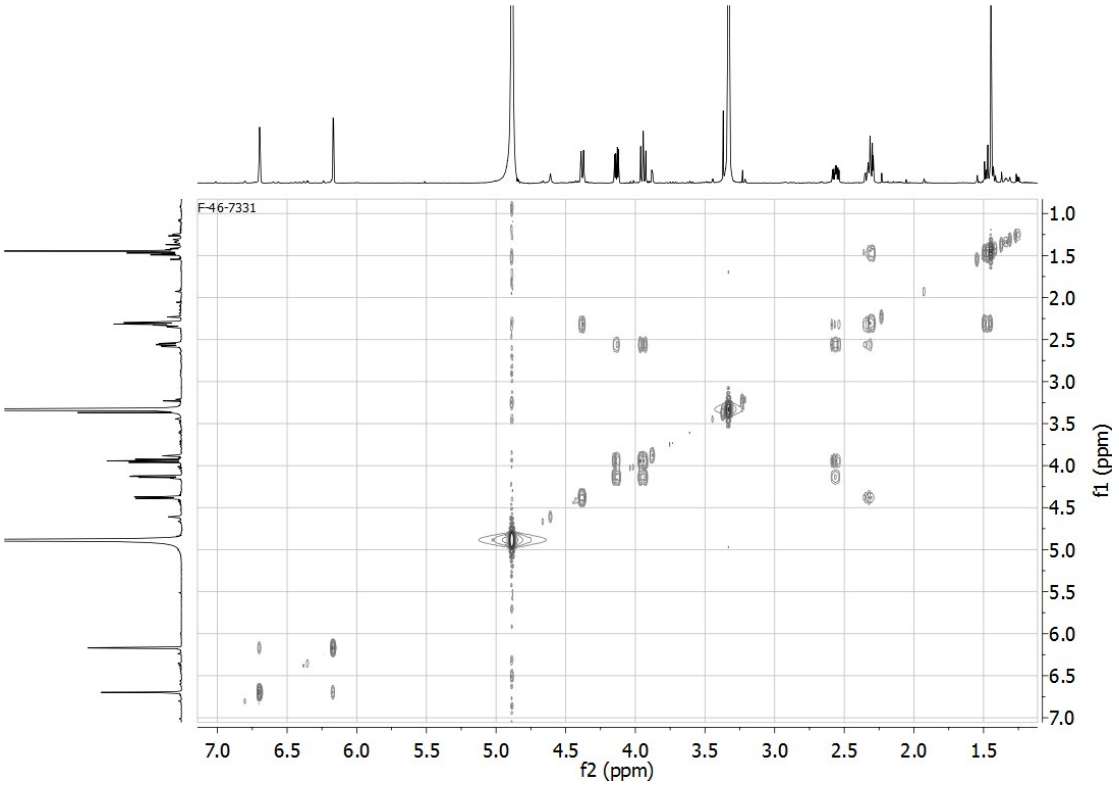

Figure S21. ^{1}H-^{1}H COSY spectrum (600 MHz) of **3** in CD_3OD.

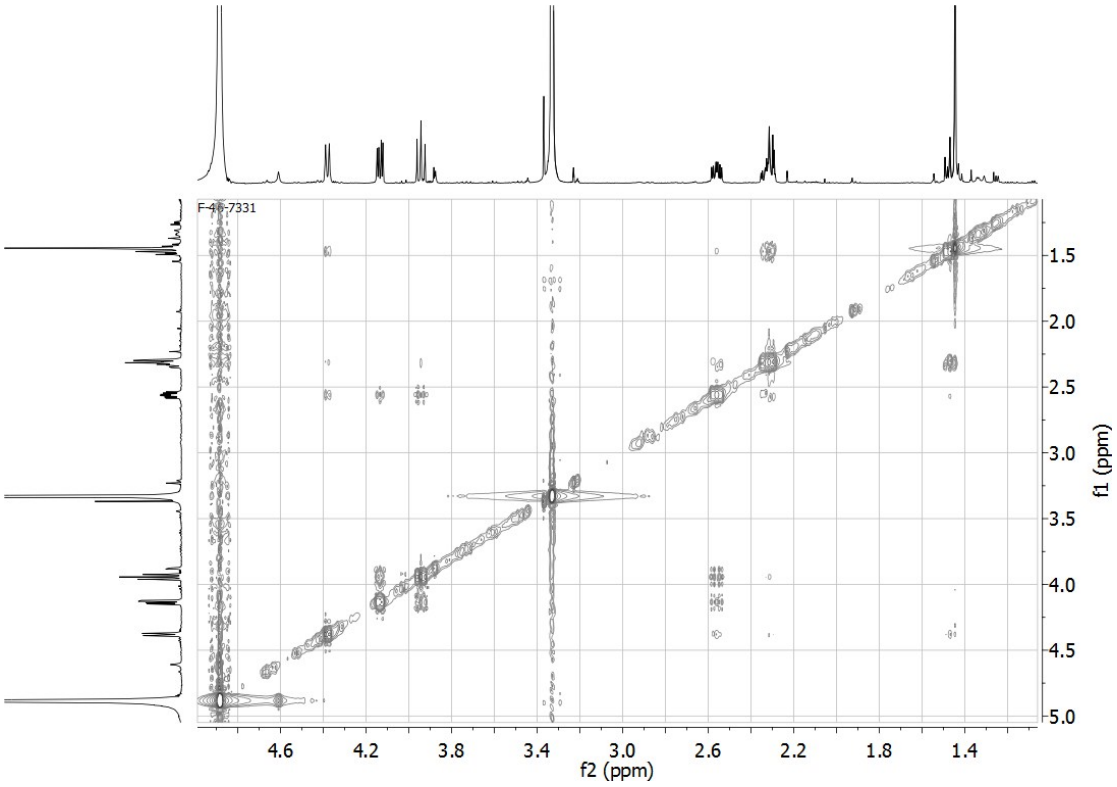

Figure S22. NOESY spectrum (600 MHz) of **3** in CD_3OD.

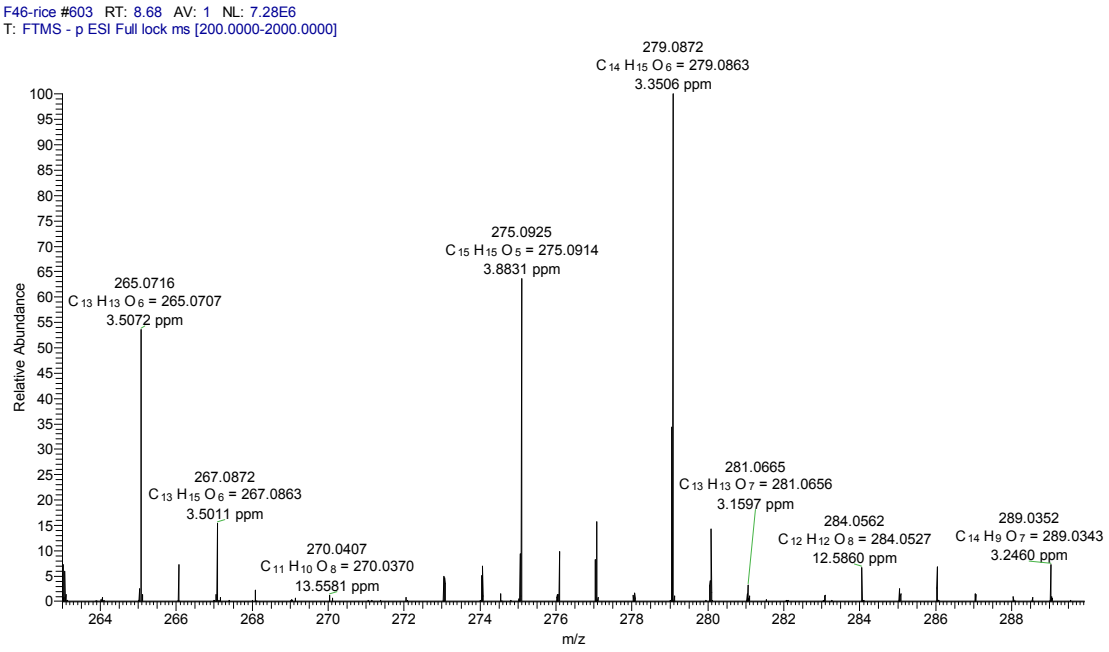

Figure S23. ESIHRMS spectrum of **3**.

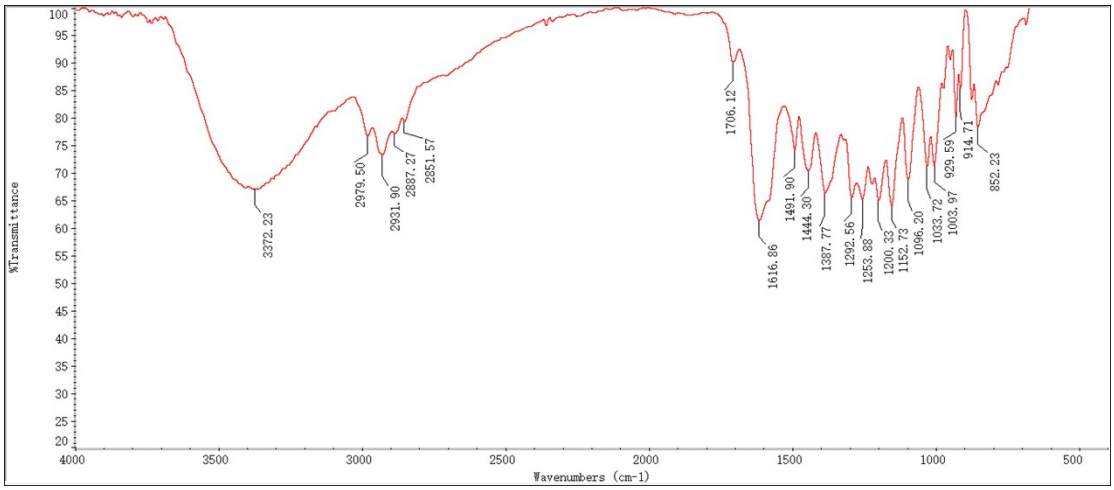

Figure S24. IR spectrum of **3**.

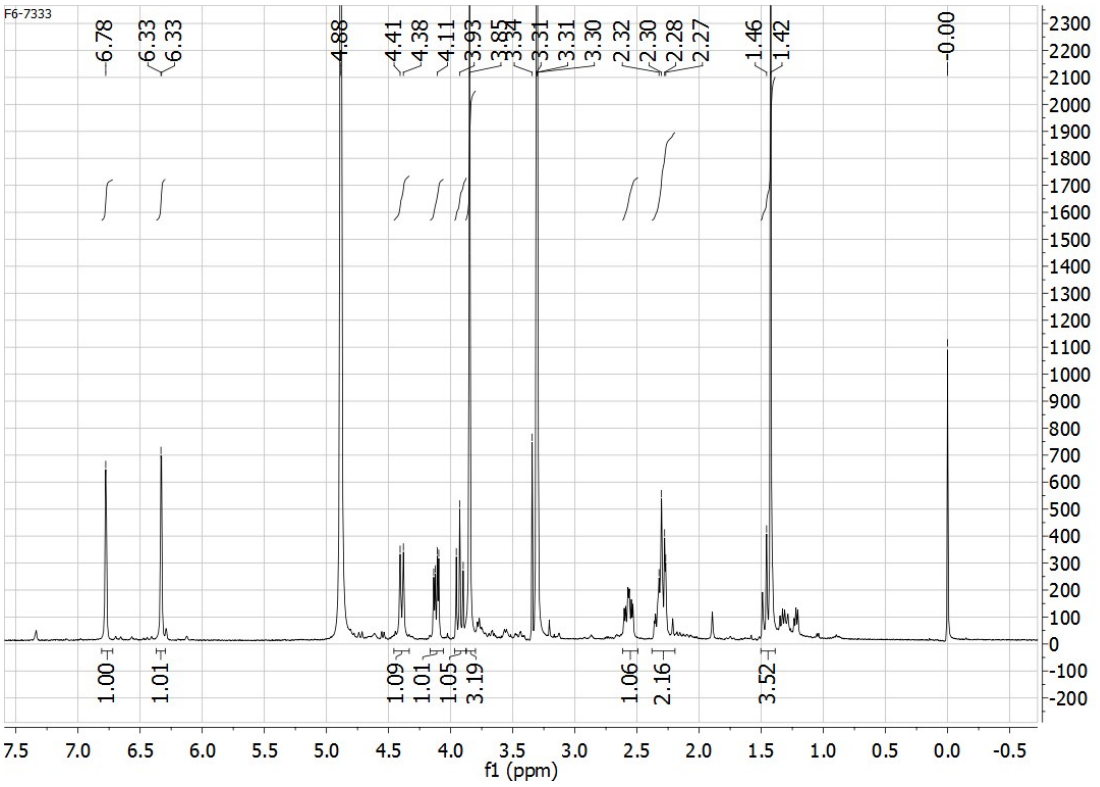

Figure S25. ^{1}H NMR spectrum (400 MHz) of **4** in CD_3OD.

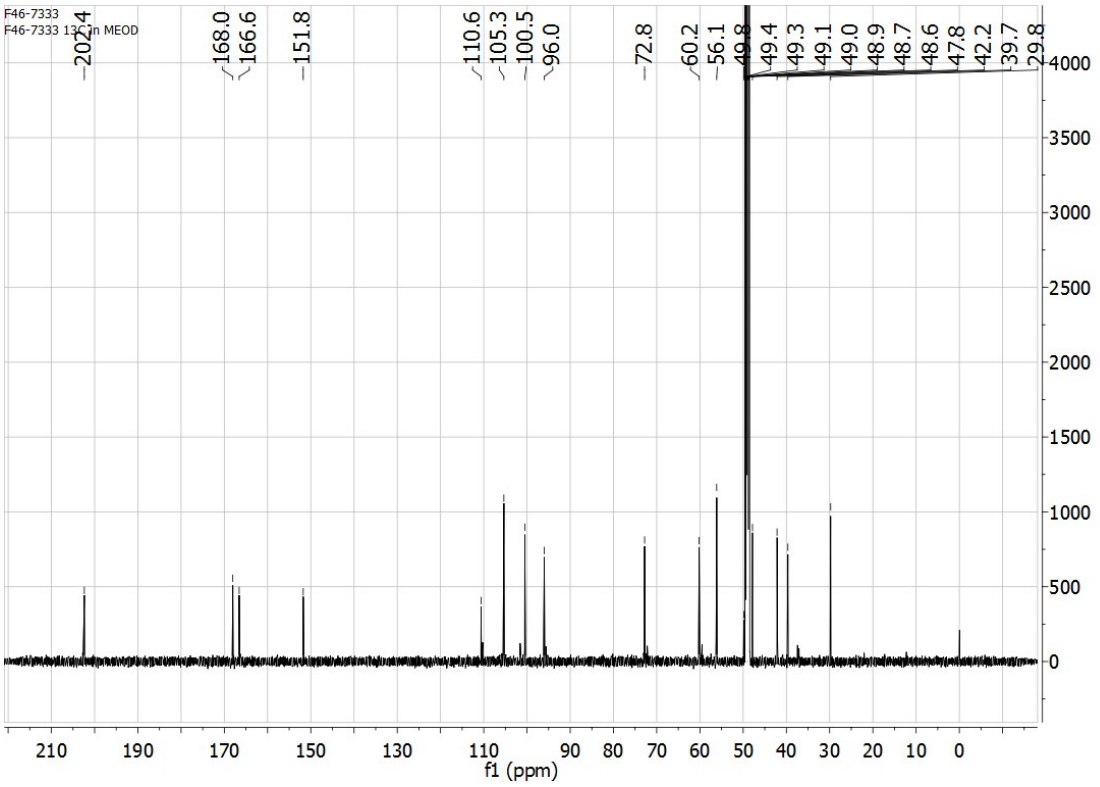

Figure S26. ^{13}C NMR spectrum (150 MHz) of **4** in CD_3OD.

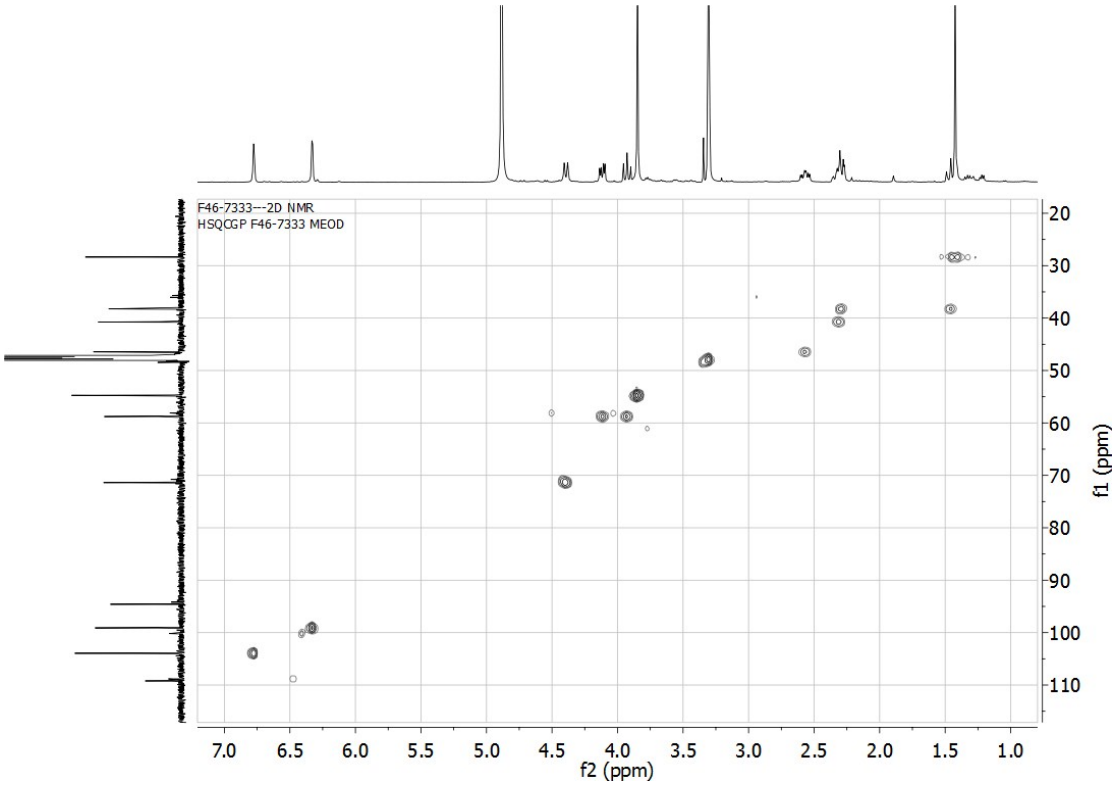

Figure S27. HSQC spectrum (600 MHz) of **4** in CD_3OD.

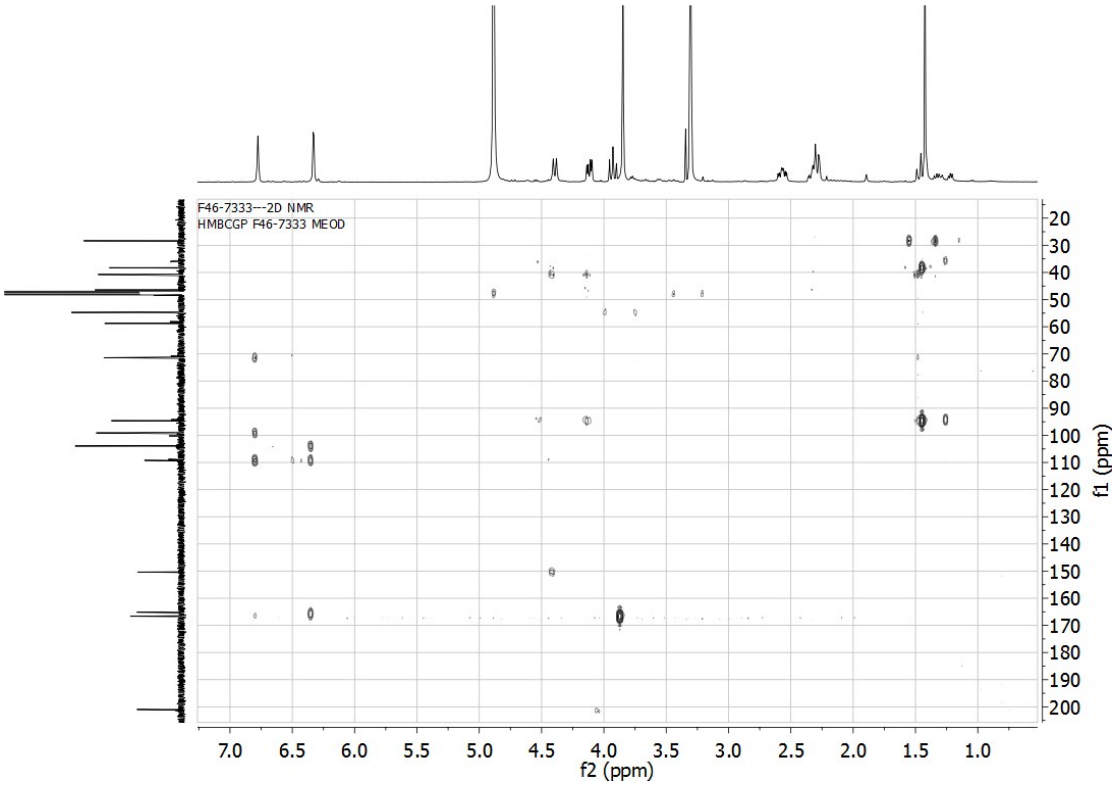

Figure S28. HMBC spectrum (600 MHz) of **4** in CD_3OD.

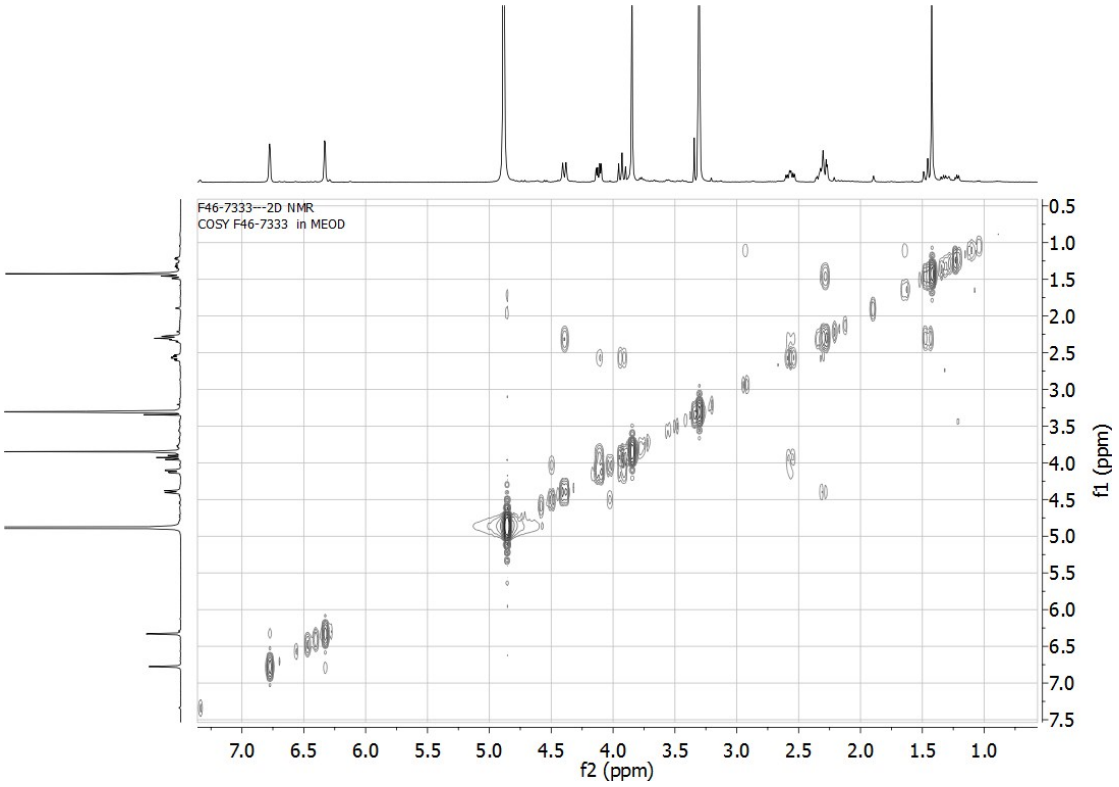

Figure S29. ^{1}H-^{1}H COSY spectrum (600 MHz) of **4** in CD_3OD.

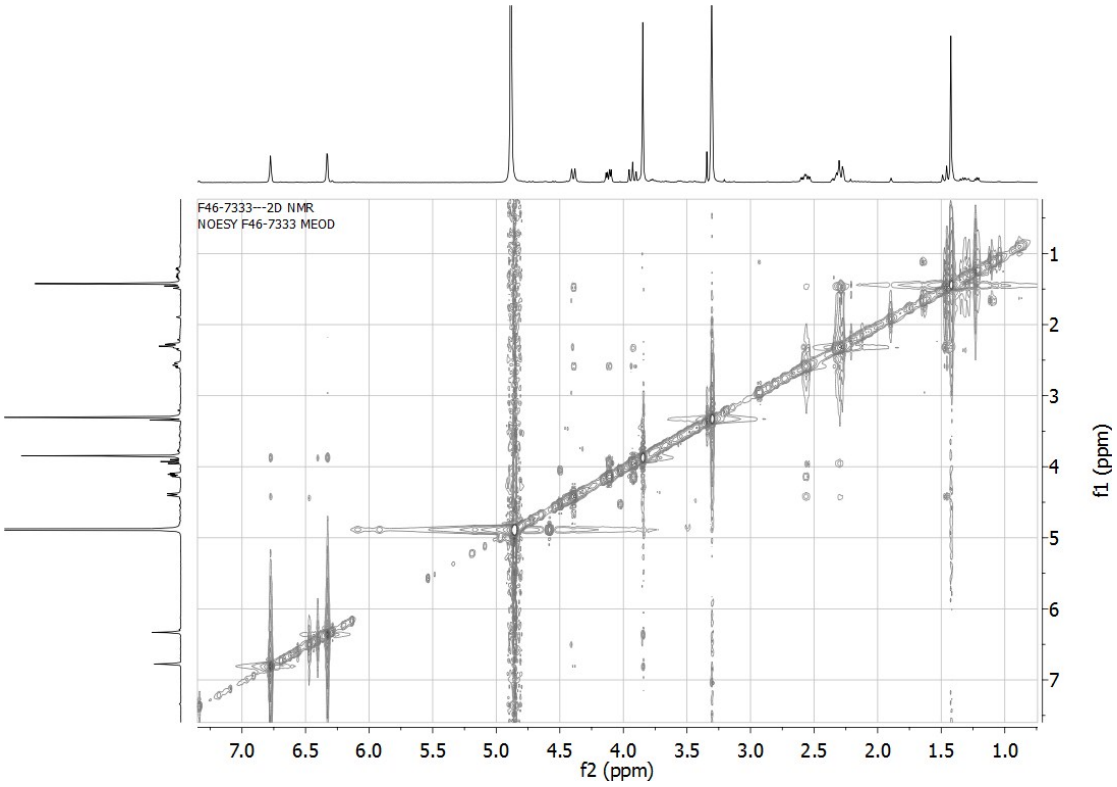

Figure S30. NOESY spectrum (600 MHz) of **4** in CD_3OD.

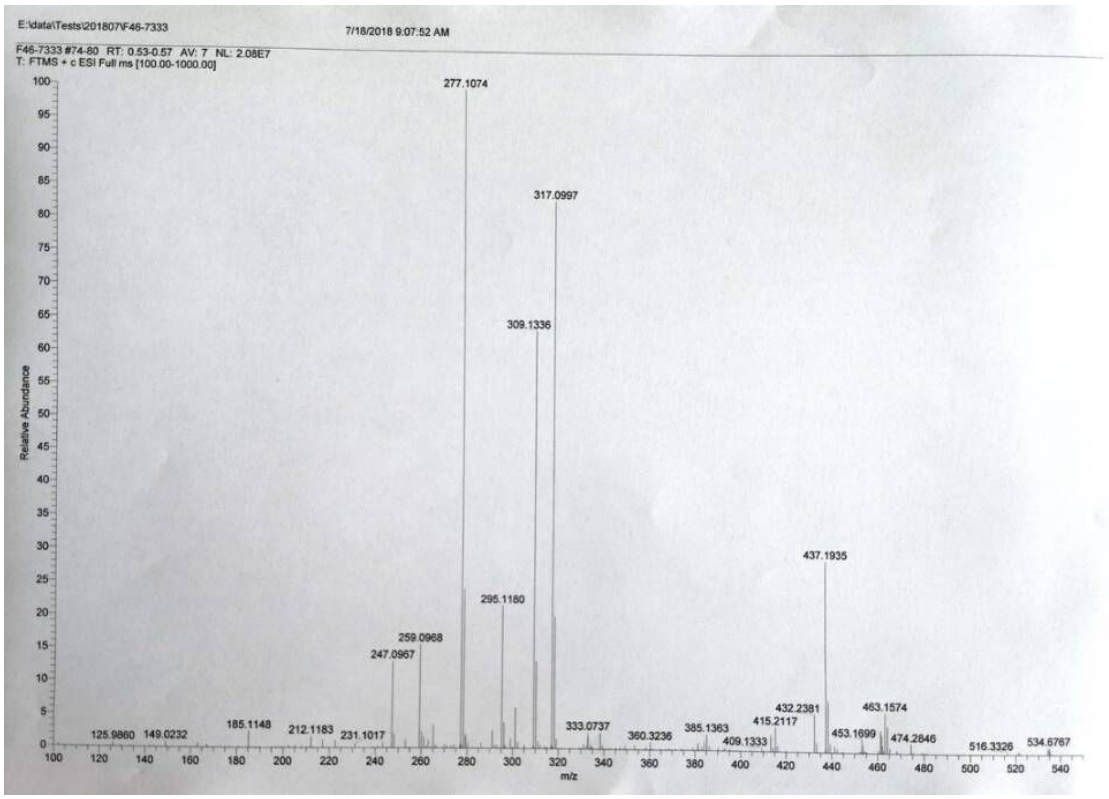

Figure S31. ESIHRMS spectrum of **4**.

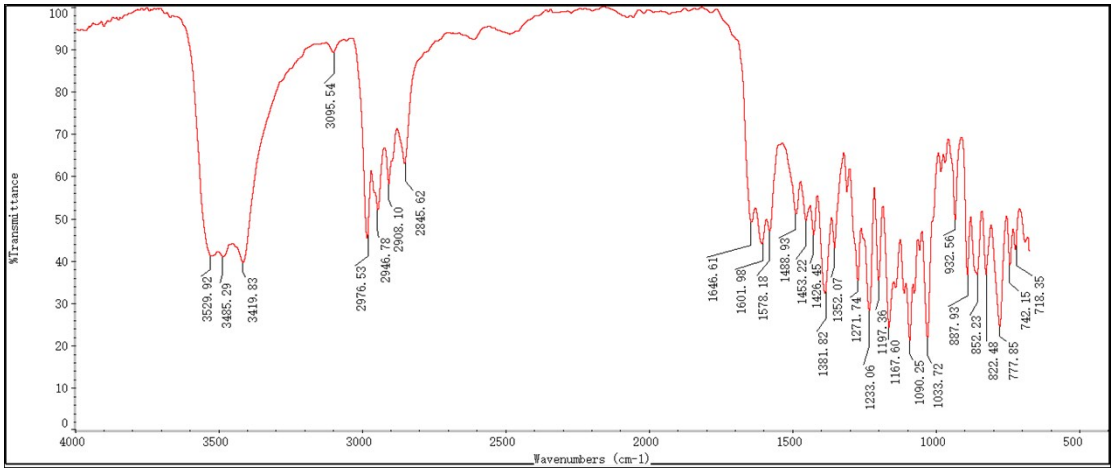

Figure S32. IR spectrum of **4**.

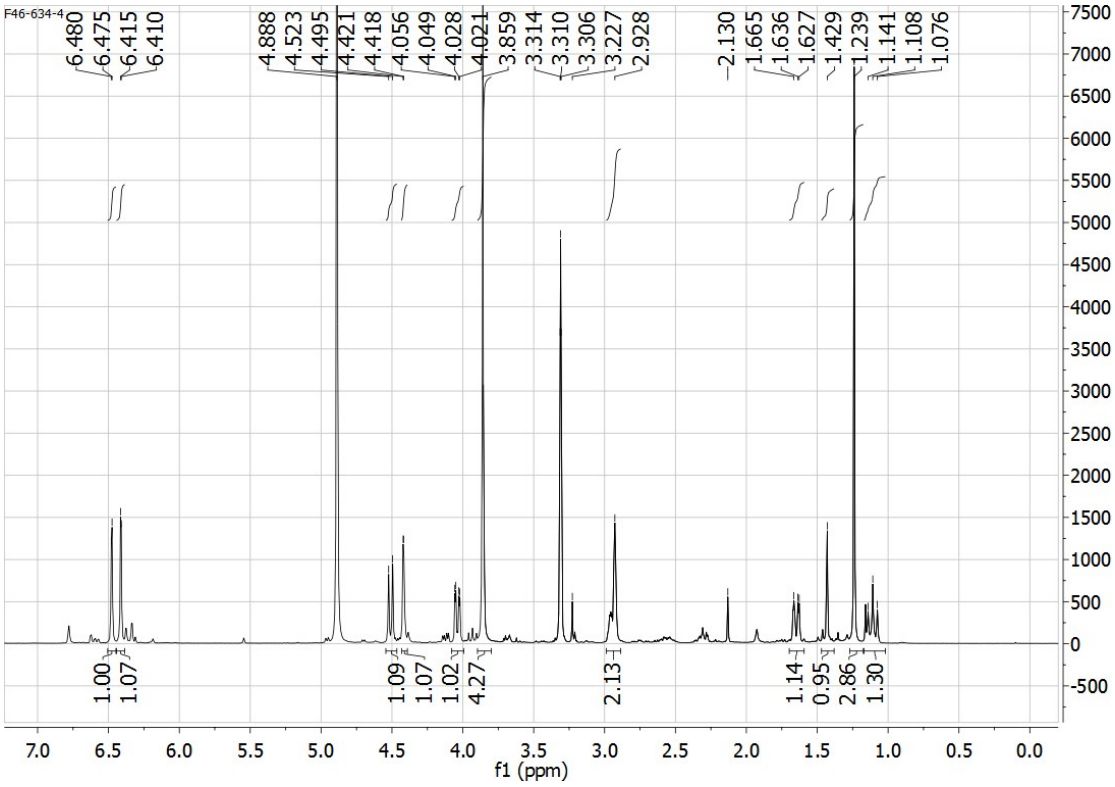

Figure S33. ^{1}H NMR spectrum (400 MHz) of **5** in CD_3OD.

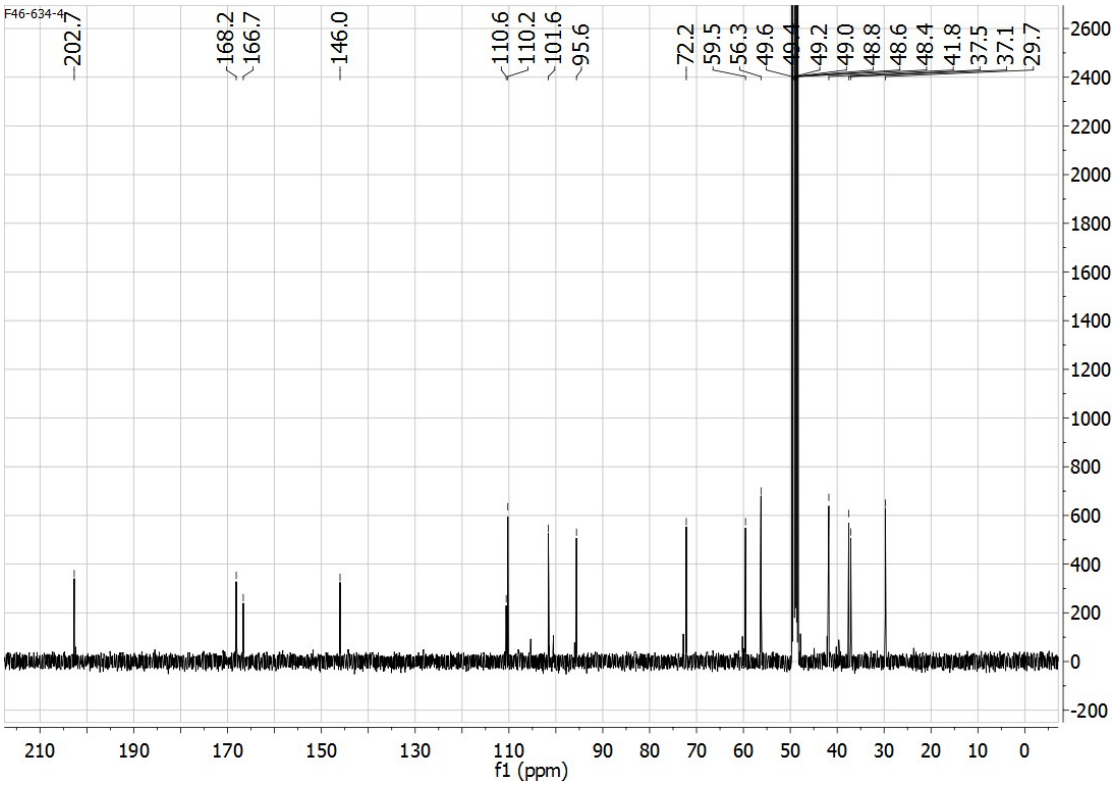

Figure S34. ^{13}C NMR spectrum (100 MHz) of **5** in CD_3OD.

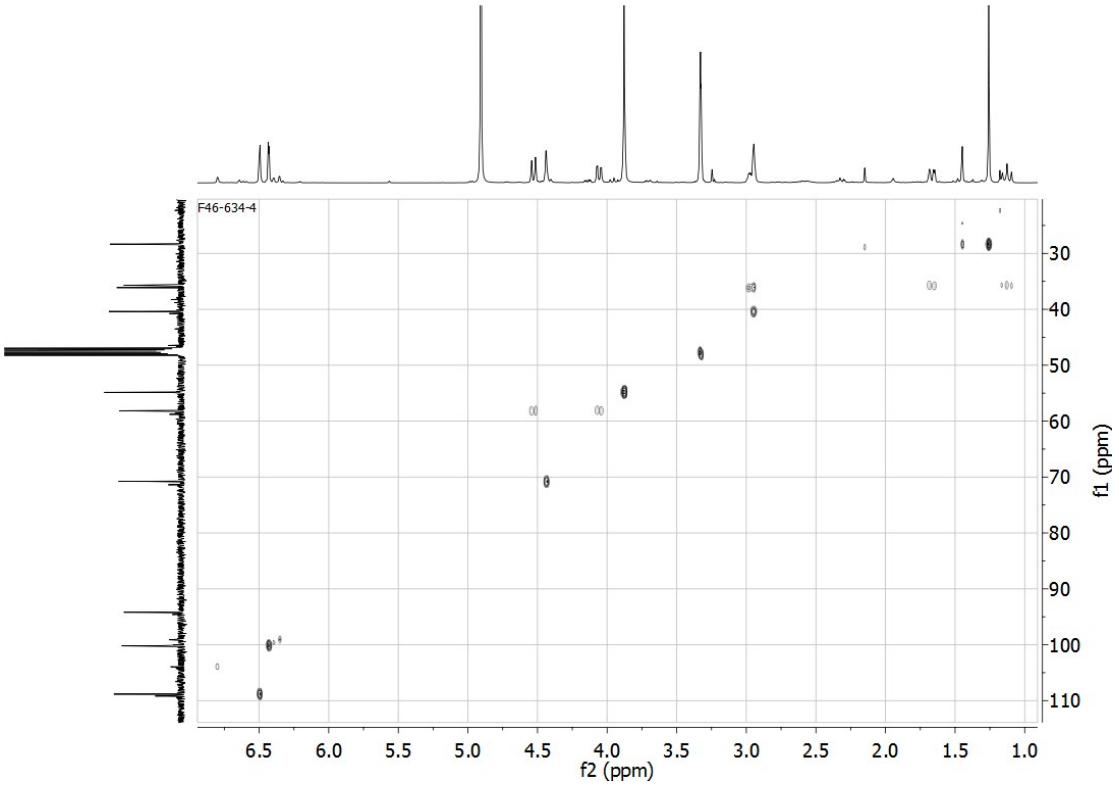

Figure S35. HSQC spectrum (400 MHz) of **5** in CD_3OD.

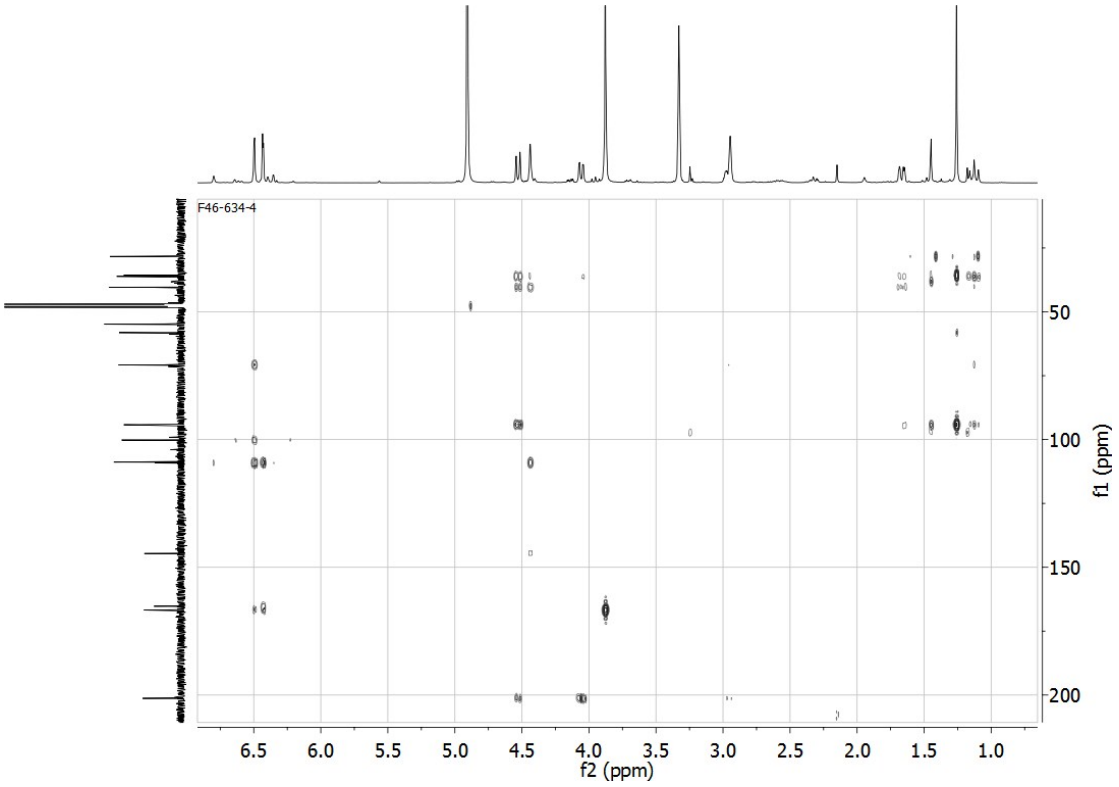

Figure S36. HMBC spectrum (400 MHz) of **5** in CD_3OD.

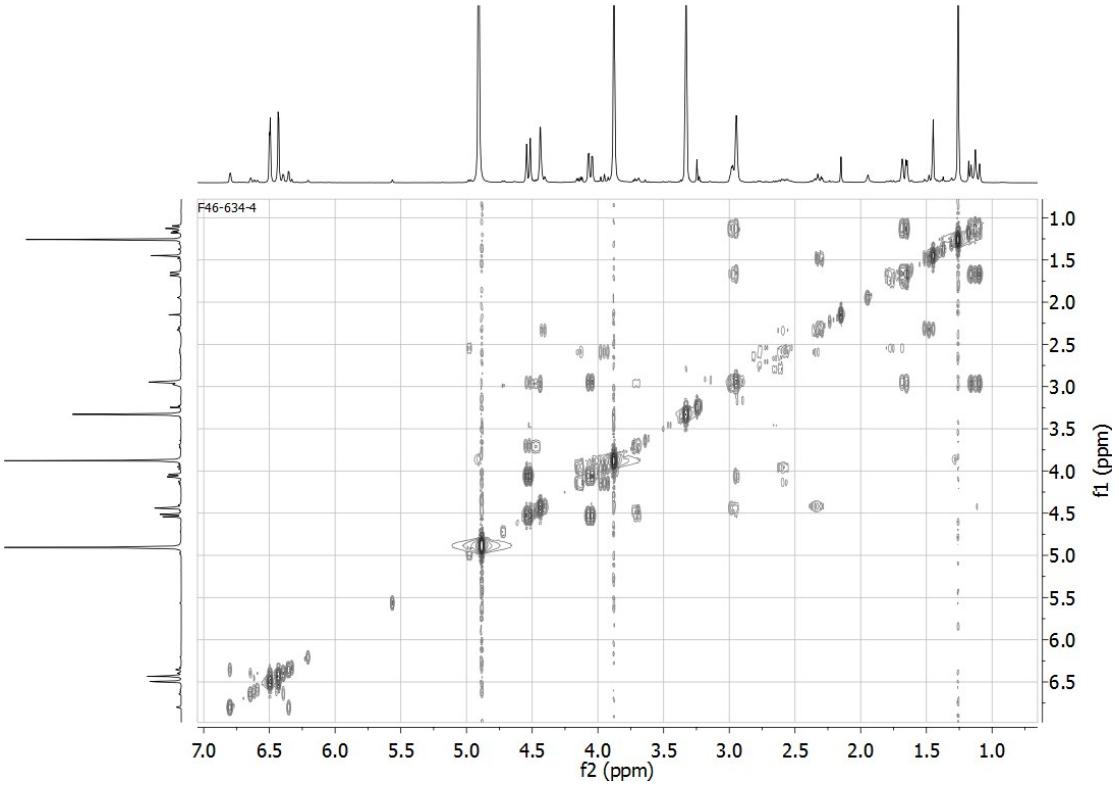

Figure S37. ^{1}H-^{1}H COSY spectrum (400 MHz) of **5** in CD_3OD.

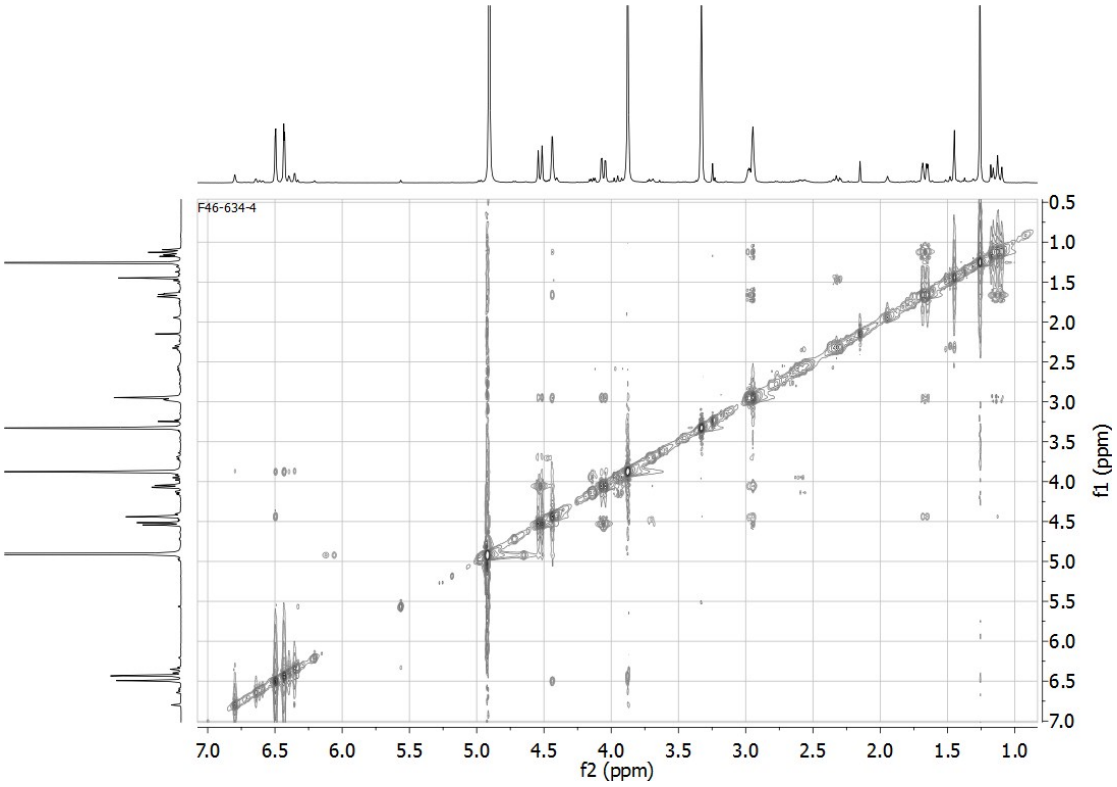

Figure S38. NOESY spectrum (400 MHz) of **5** in CD_3OD.

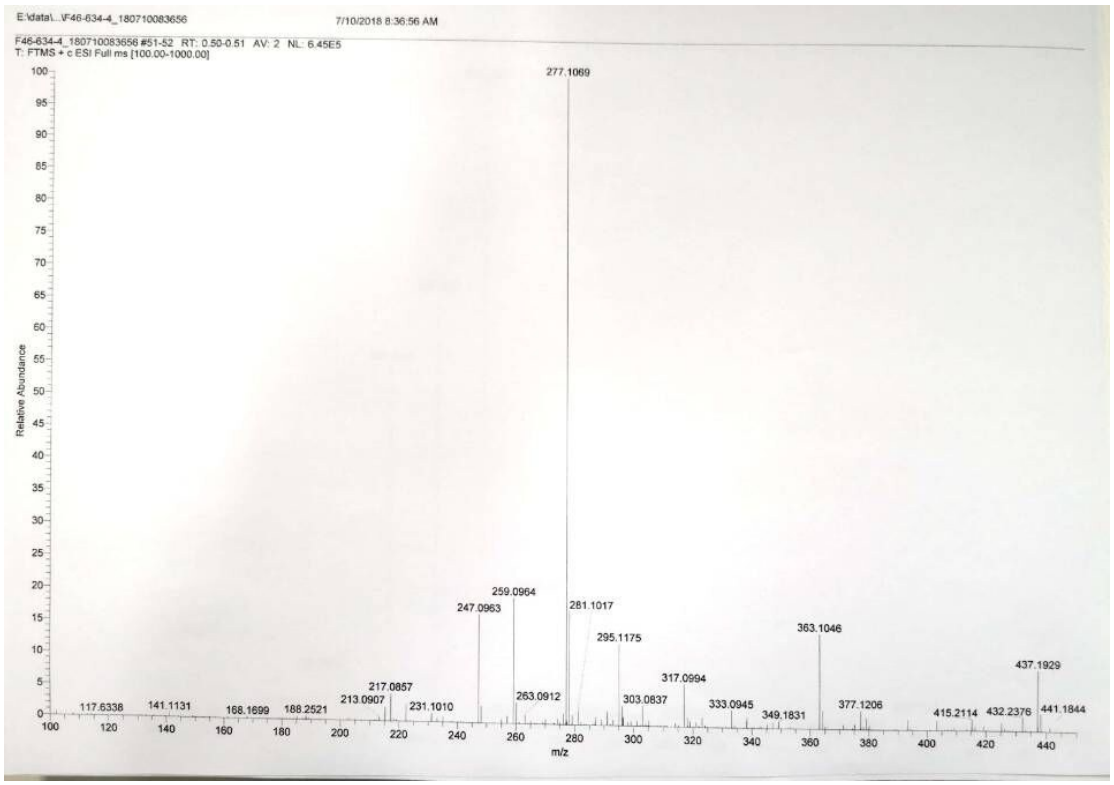

Figure S39. ESIHRMS spectrum of **5**.

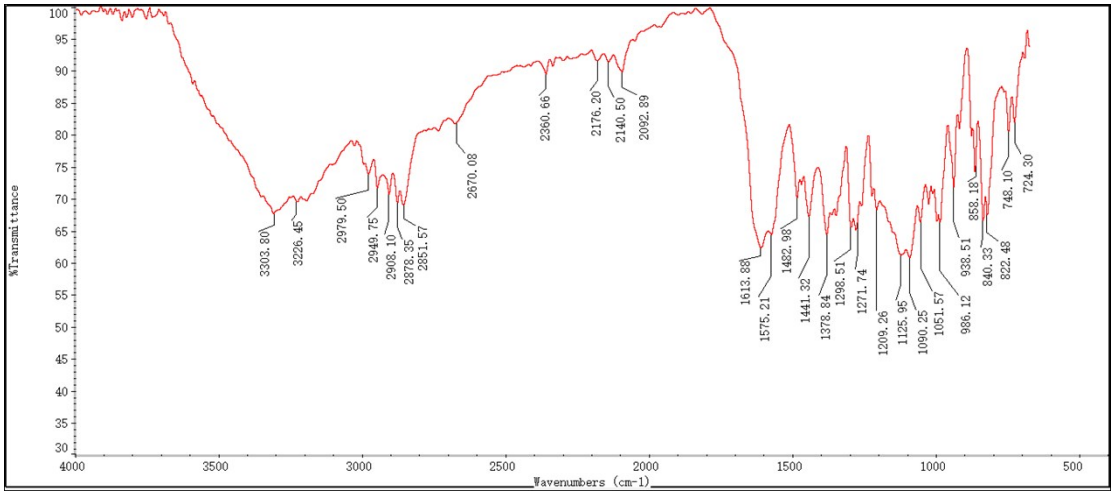

Figure S40. IR spectrum of **5**.

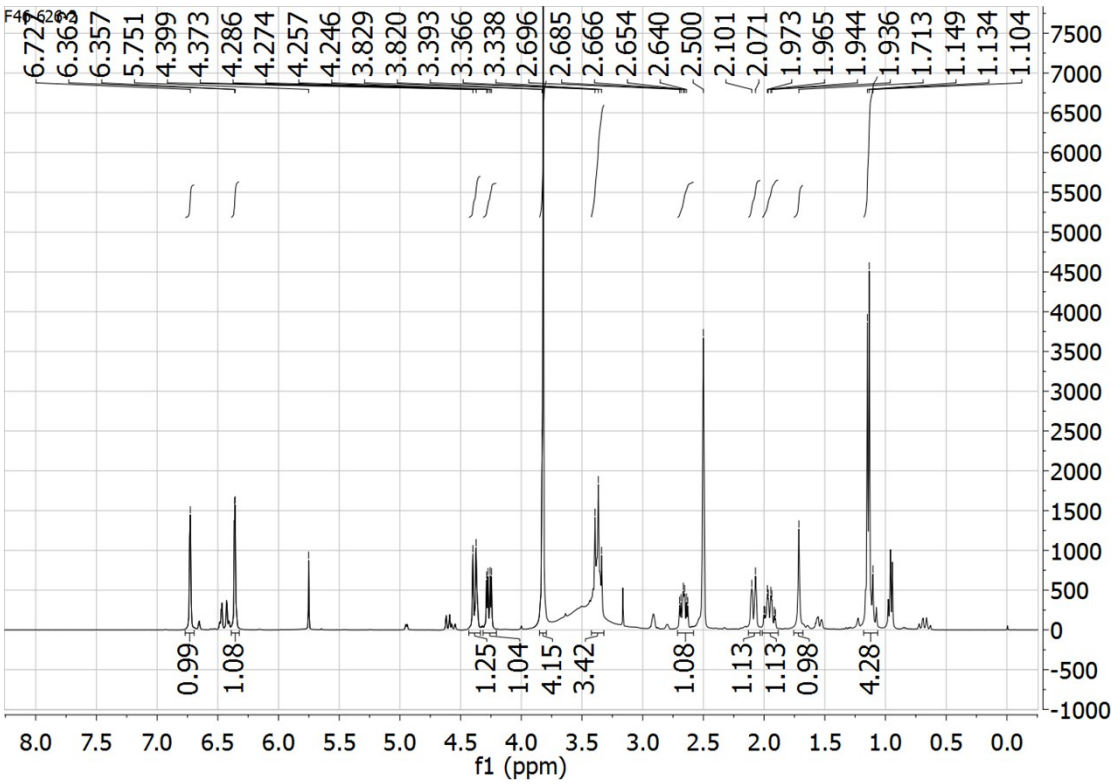

Figure S41. ^{1}H NMR spectrum (400 MHz) of **6** in DMSO-d_6.

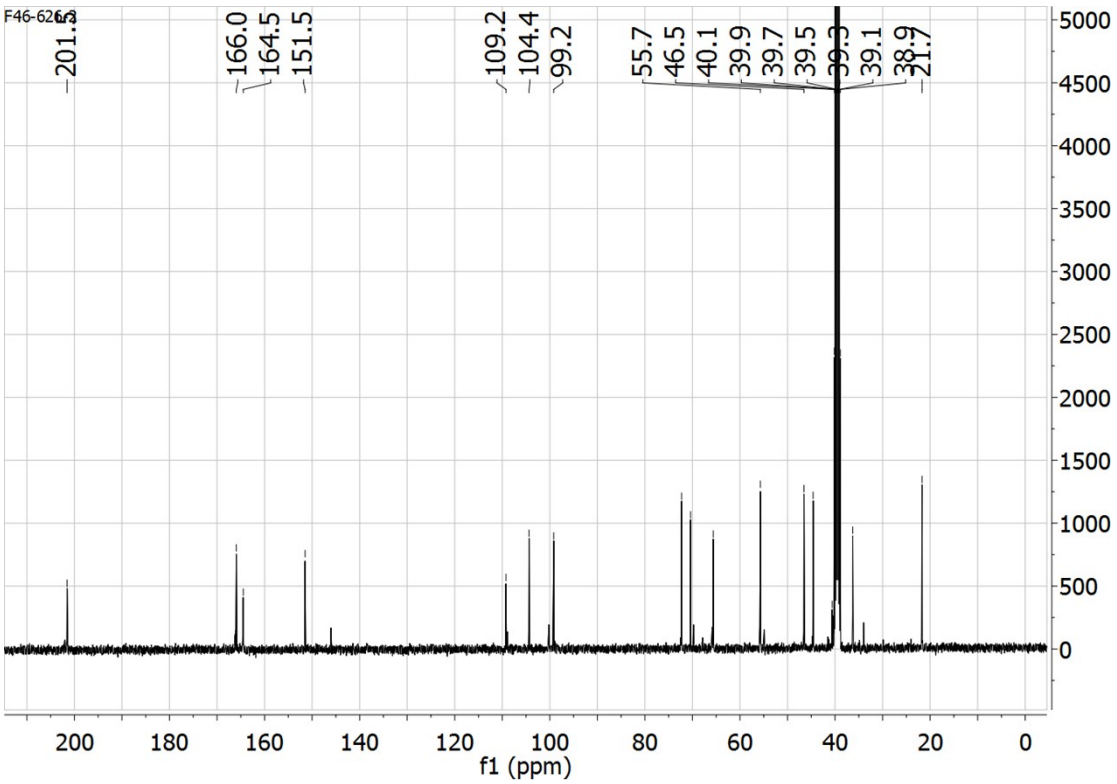

Figure S42. ^{13}C NMR spectrum (100 MHz) of **6** in DMSO-d_6.

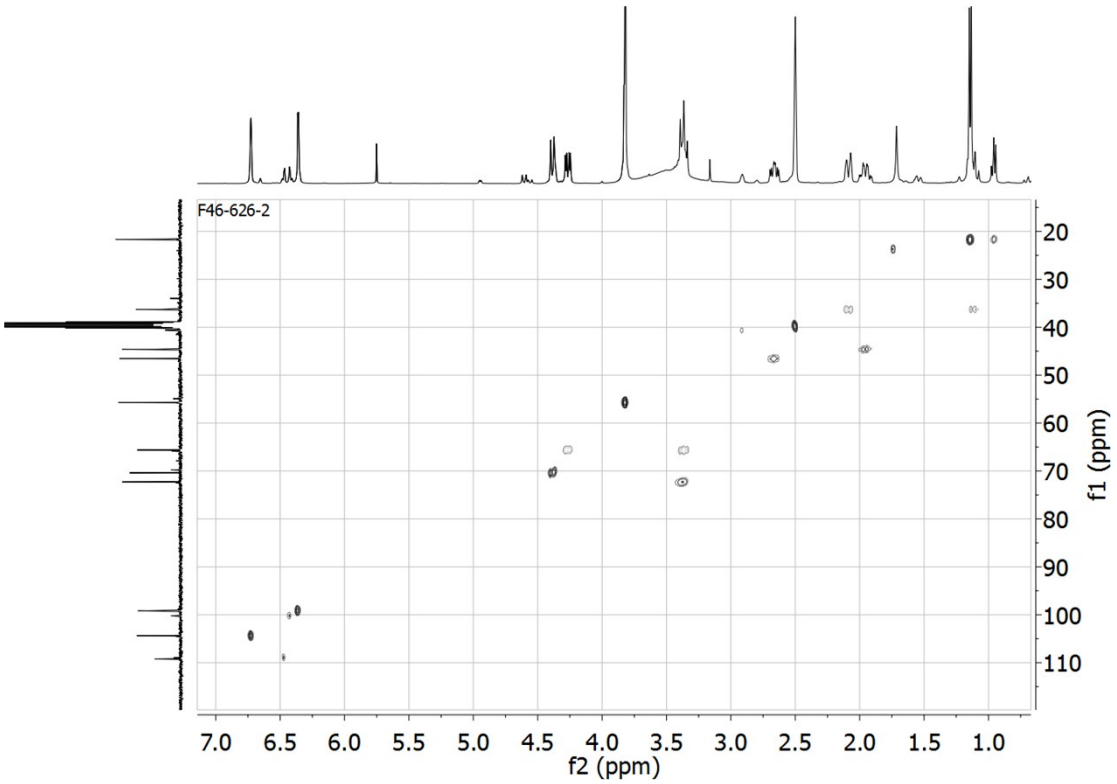

Figure S43. HSQC spectrum (400 MHz) of **6** in DMSO-d_6.

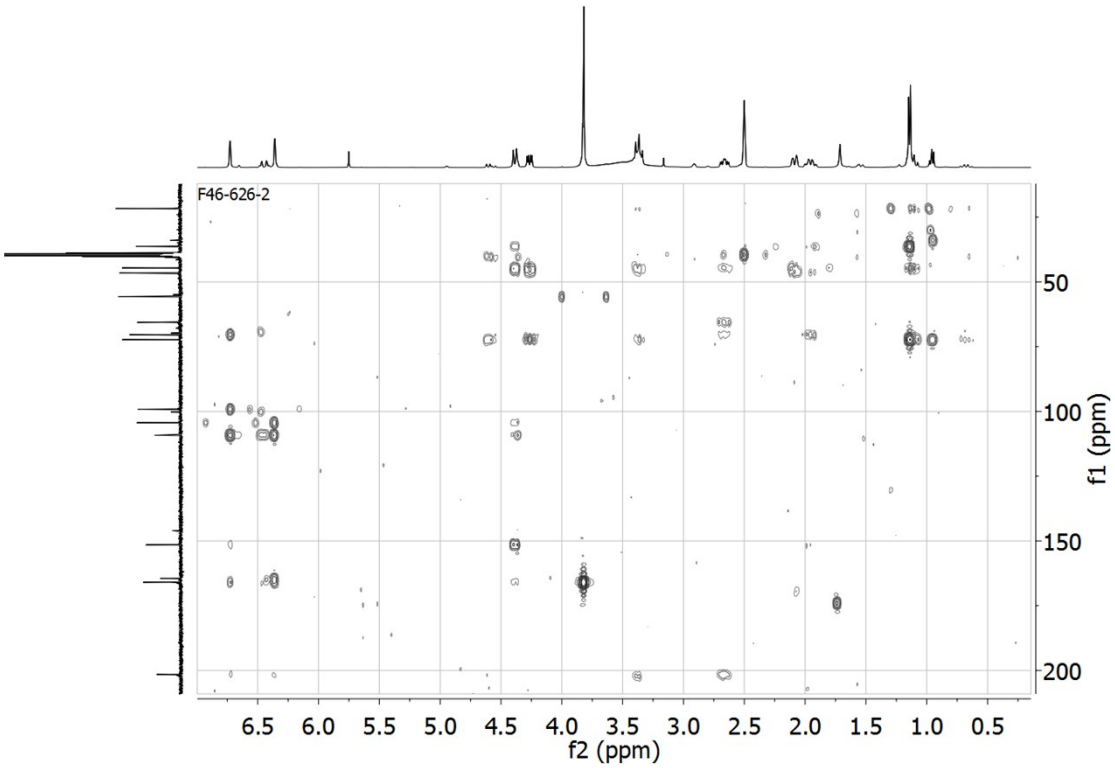

Figure S44. HMBC spectrum (400 MHz) of **6** in DMSO-d_6.

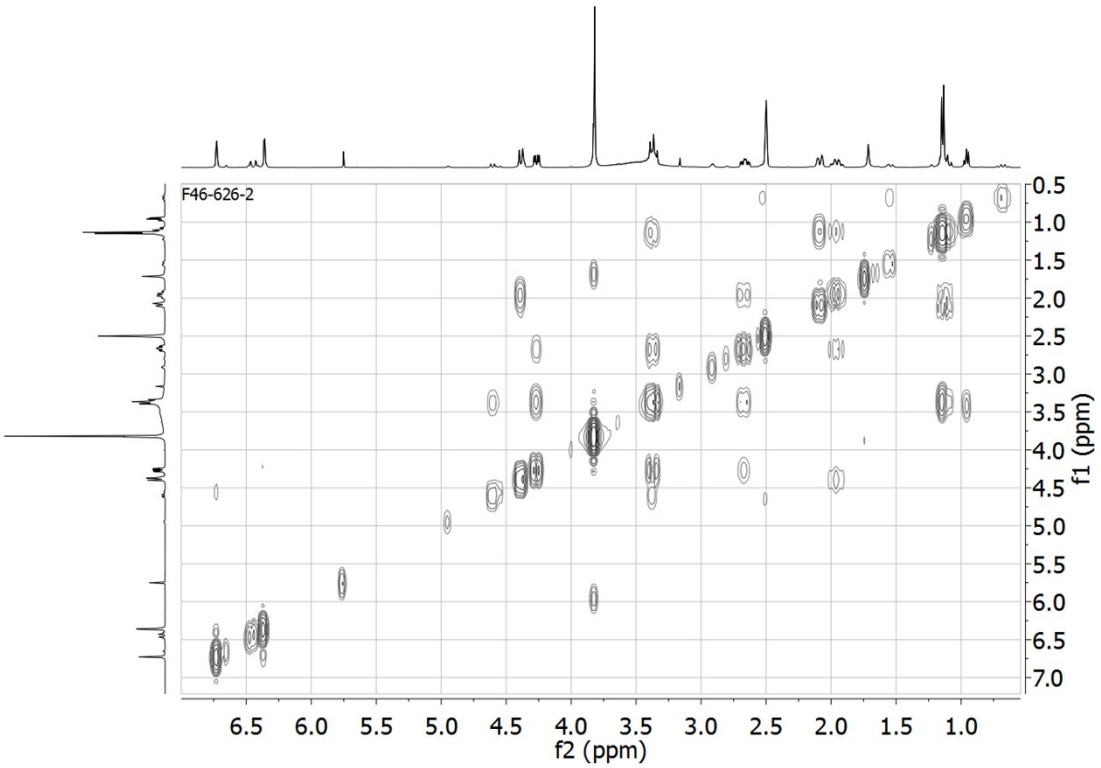

Figure S45. ^{1}H-^{1}H COSY spectrum (400 MHz) of **6** in DMSO-d_6.

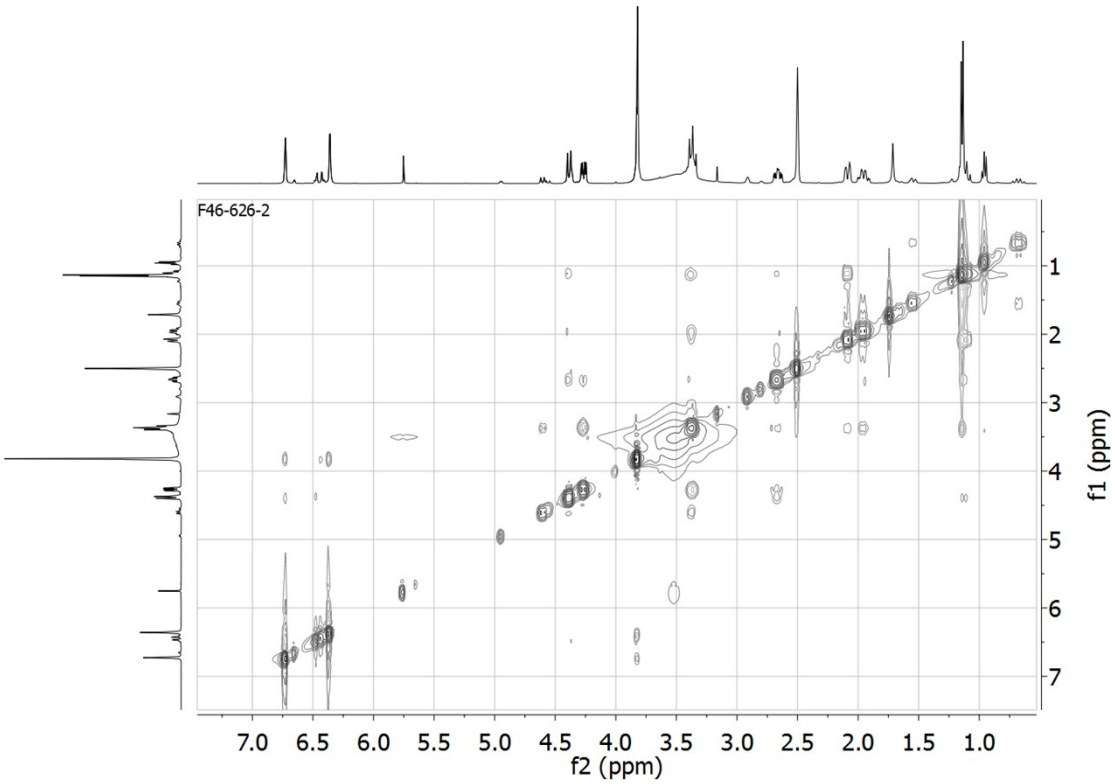

Figure S46. NOESY spectrum (400 MHz) of **6** in DMSO-d_6.

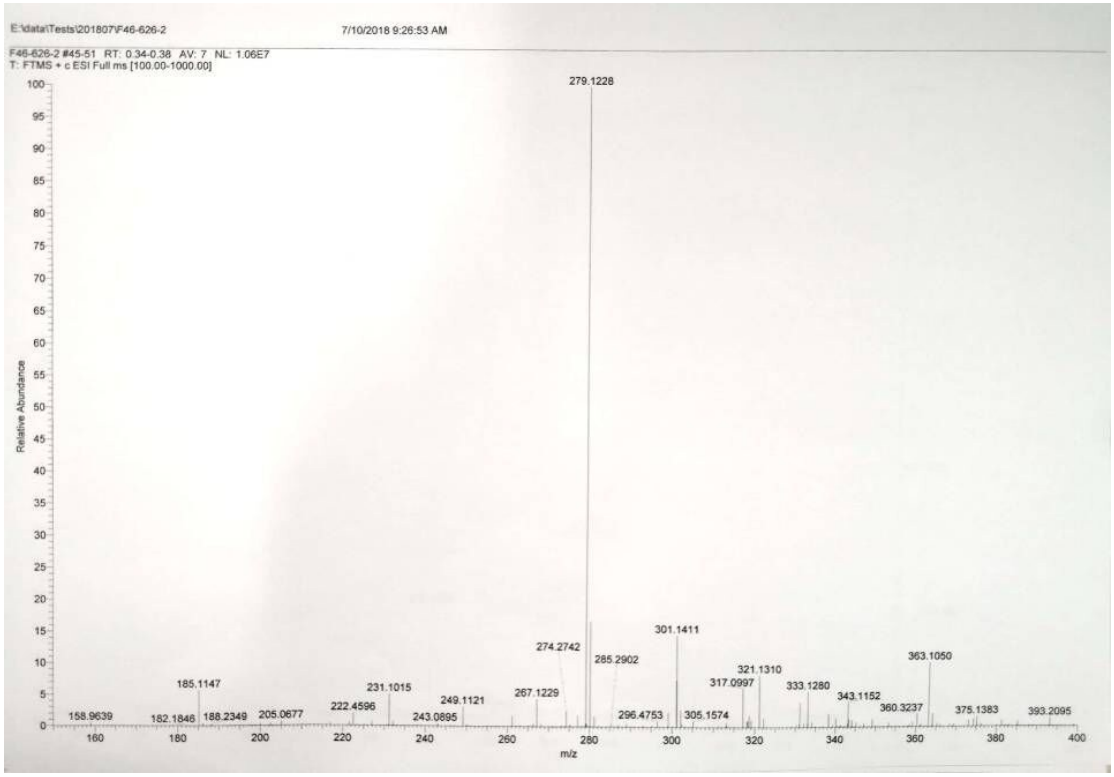

Figure S47. ESIHRMS spectrum of **6**.

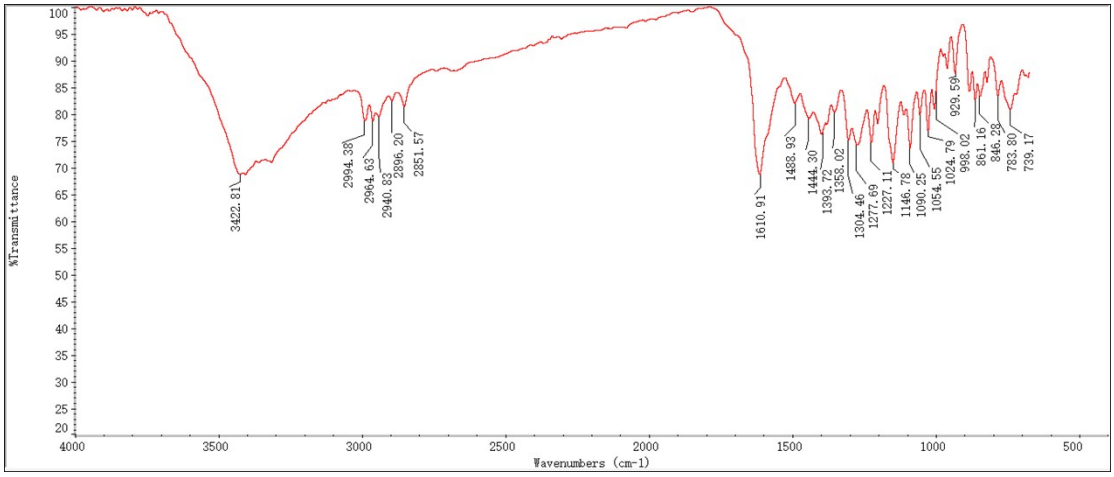

Figure S48. IR spectrum of **6**.

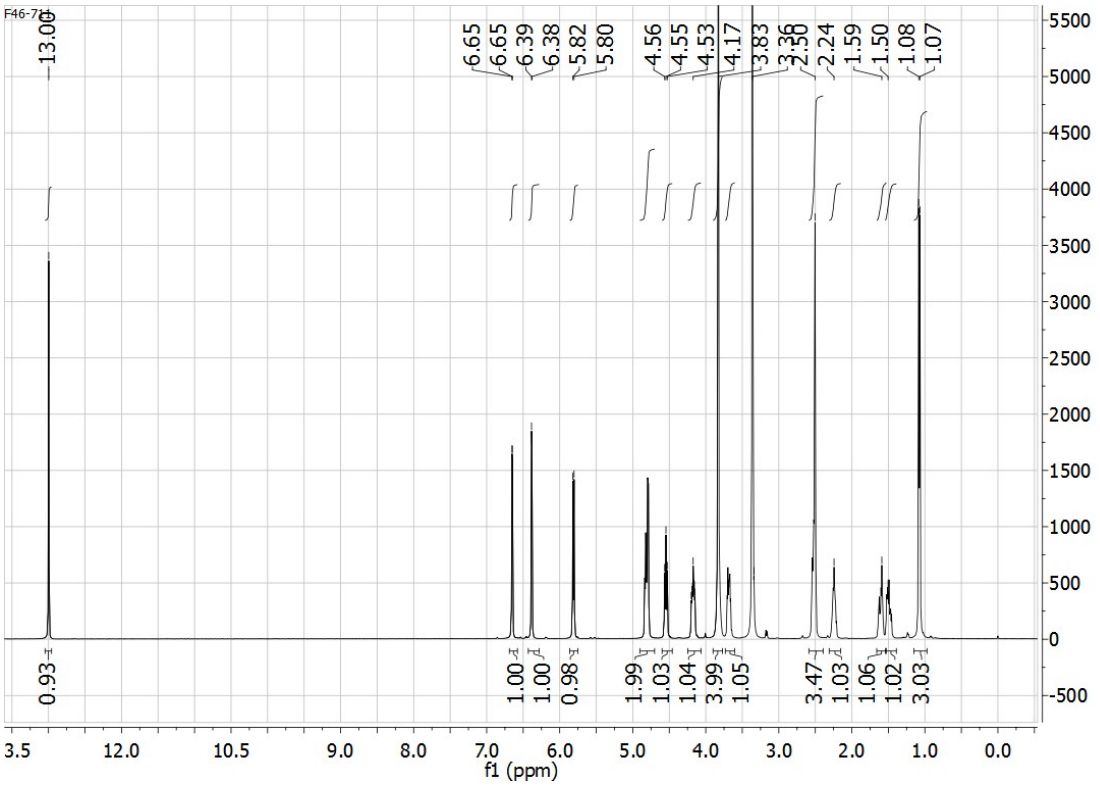

Figure S49. ^{1}H NMR spectrum (400 MHz) of **7** in DMSO-d_6.

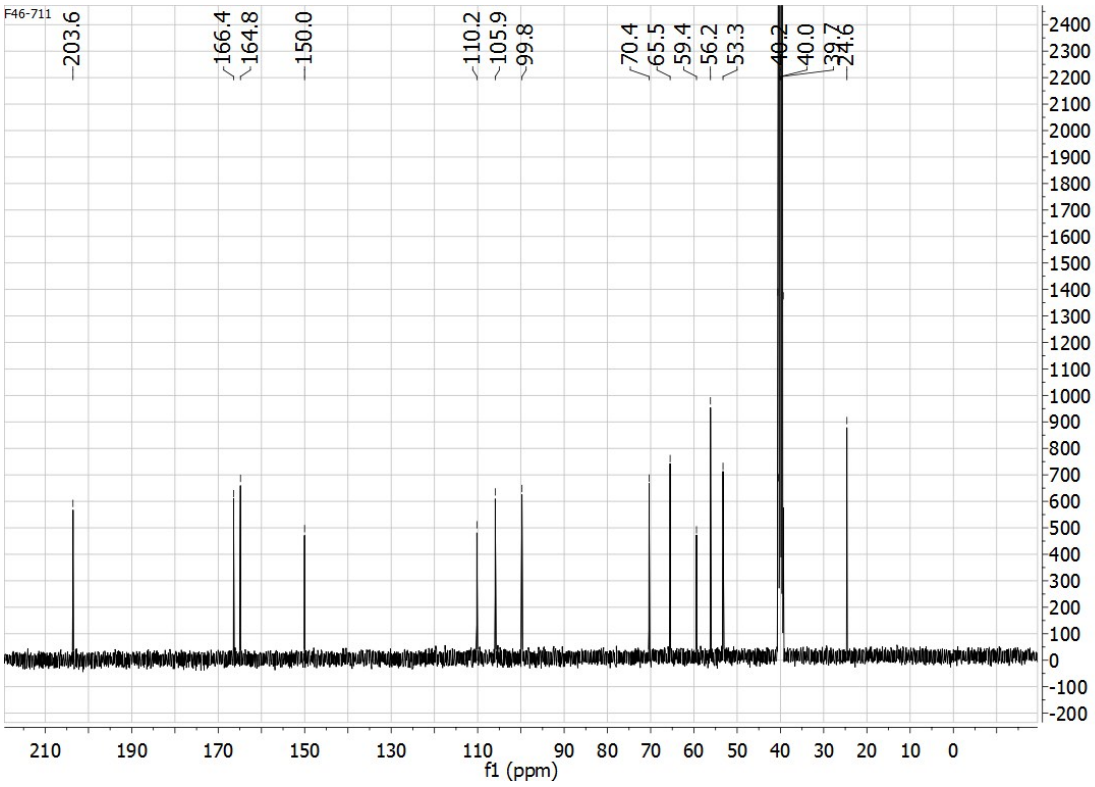

Figure S50. ^{13}C NMR spectrum (100 MHz) of **7** in DMSO-d_6.

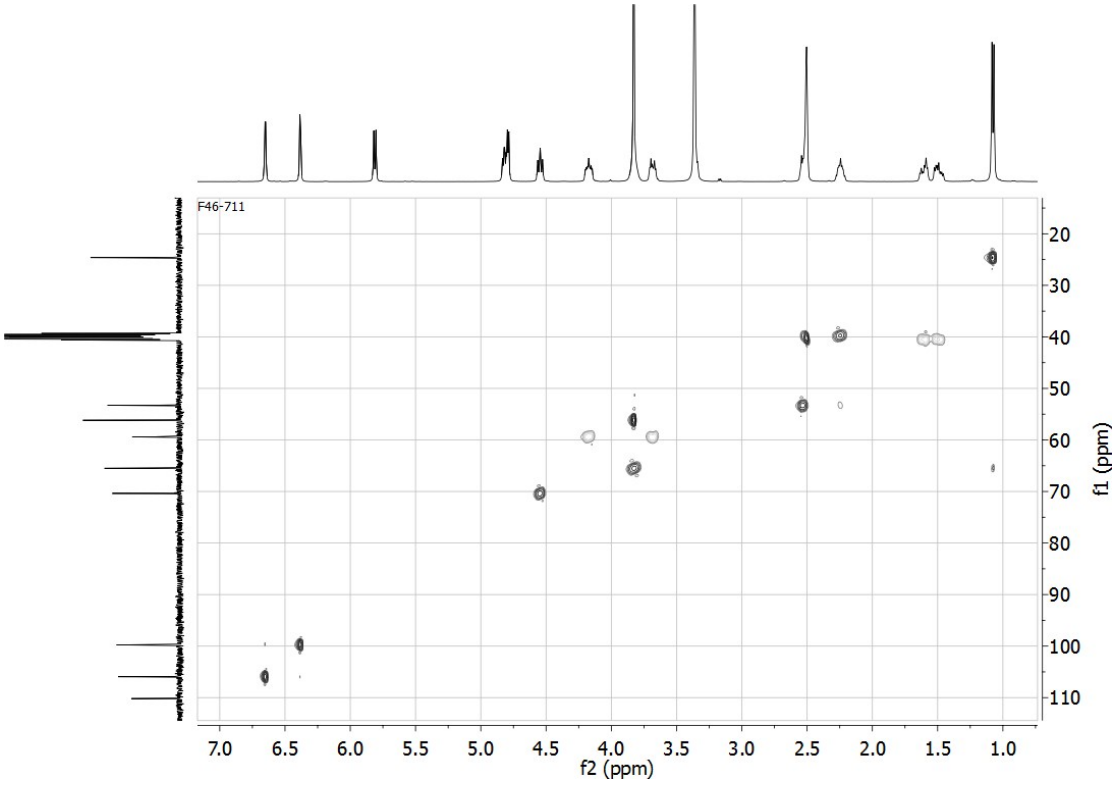

Figure S51. HSQC spectrum (400 MHz) of **7** in DMSO-d_6.

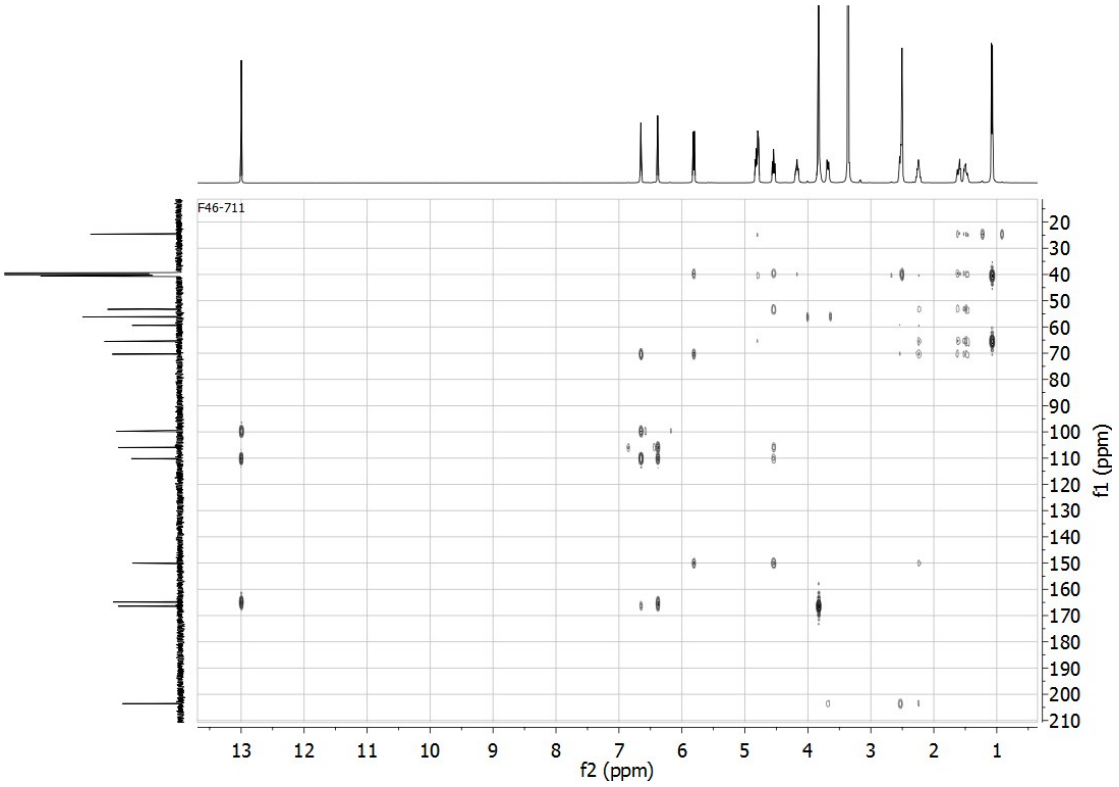

Figure S52. HMBC spectrum (400 MHz) of **7** in DMSO-d_6.

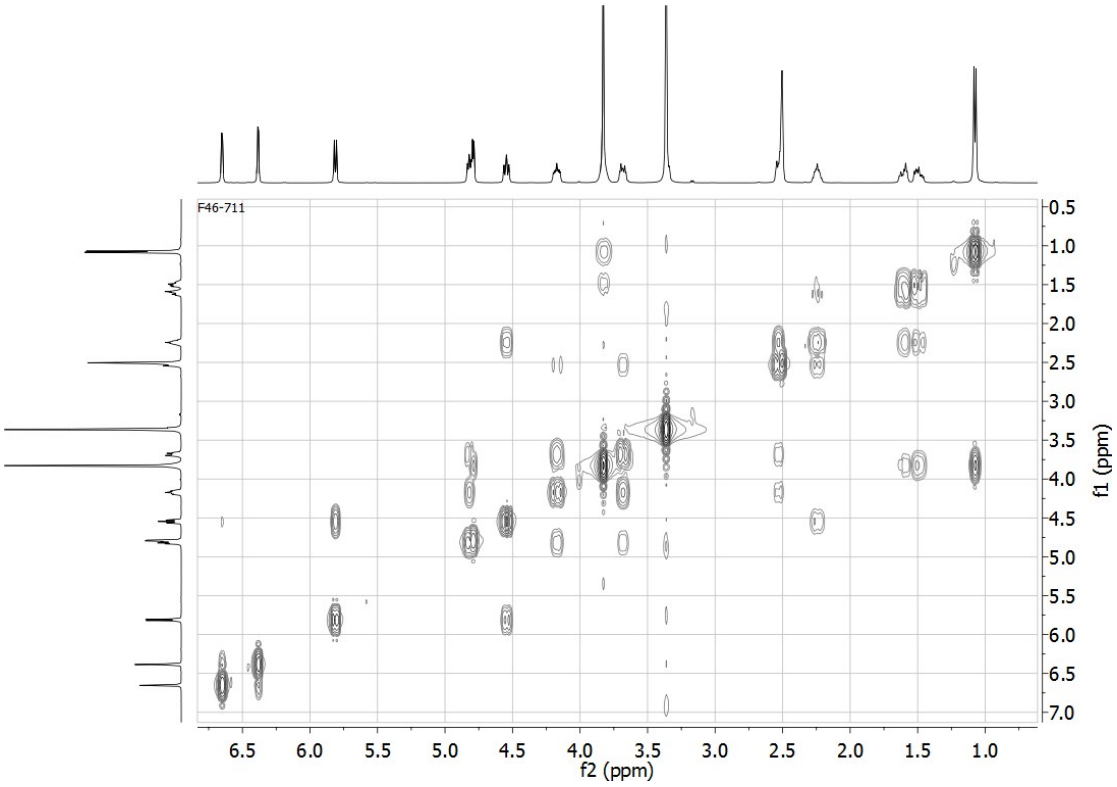

Figure S53. ^{1}H-^{1}H COSY spectrum (400 MHz) of **7** in DMSO-d_6.

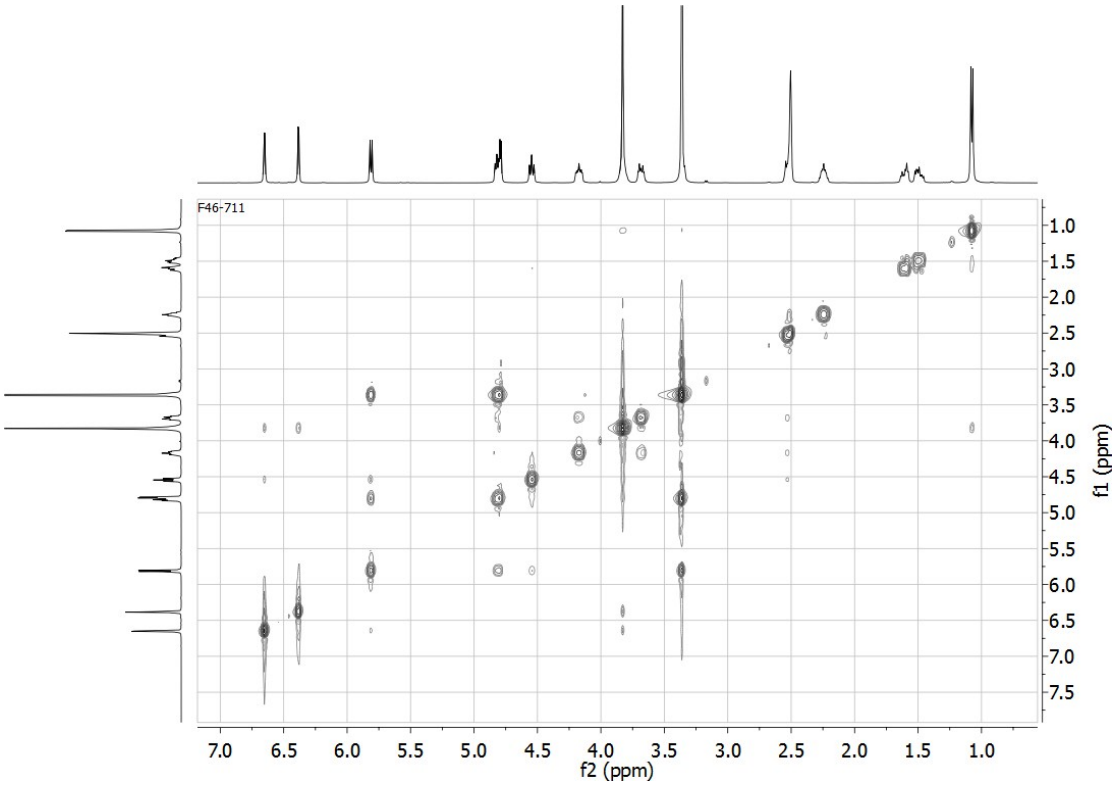

Figure S54. NOESY spectrum (400 MHz) of **7** in DMSO-d_6.

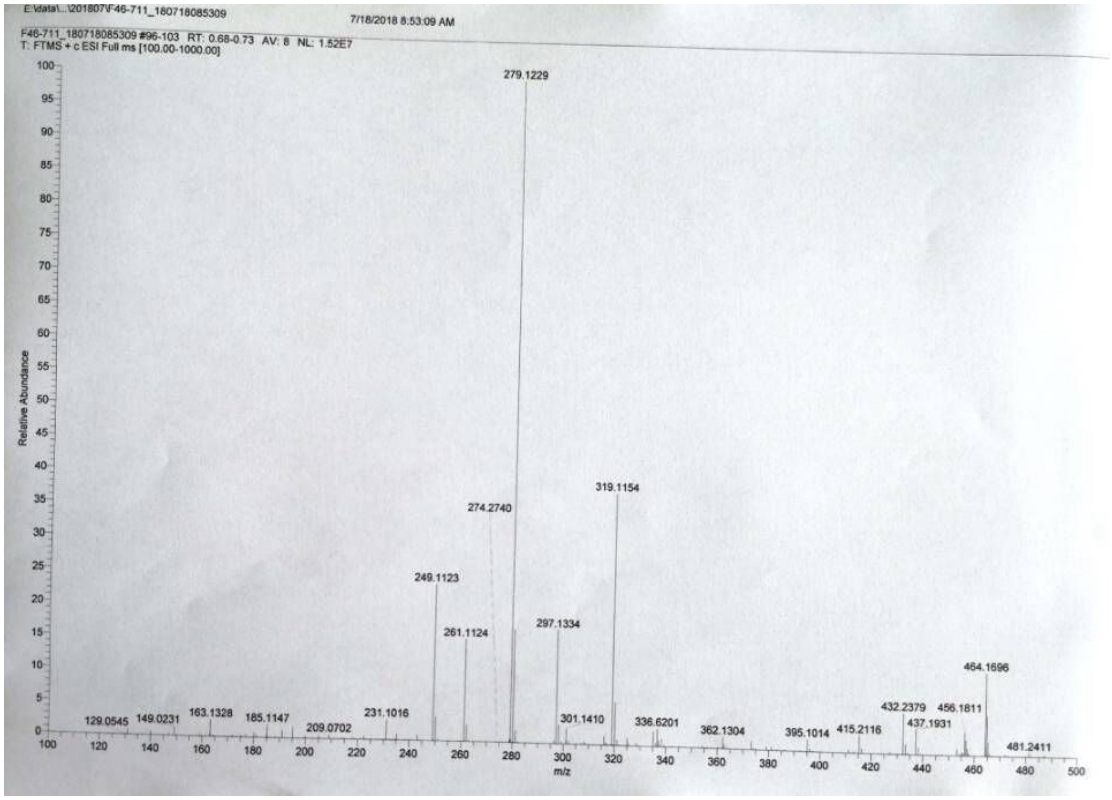

Figure S55. ESIHRMS spectrum of **7**.

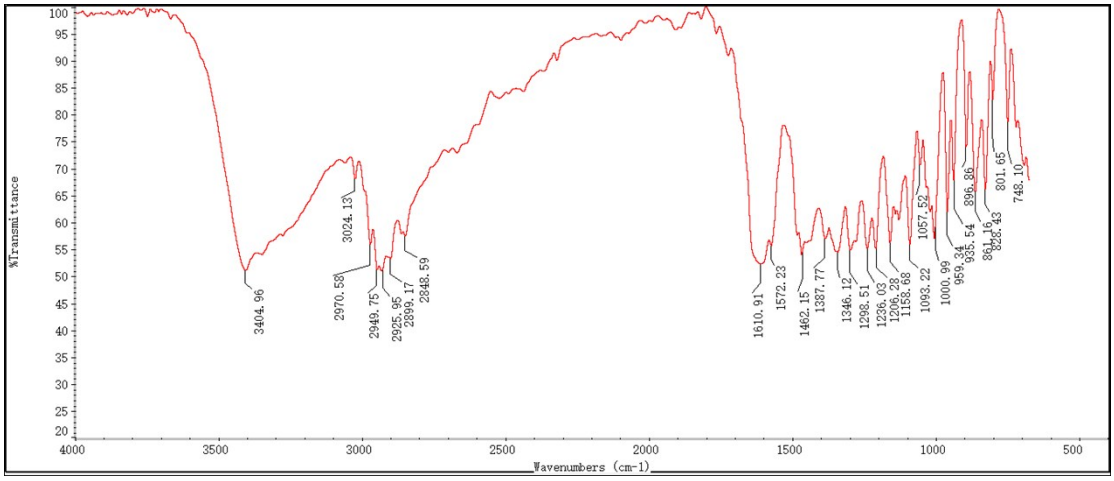

Figure S56. IR spectrum of **7**.

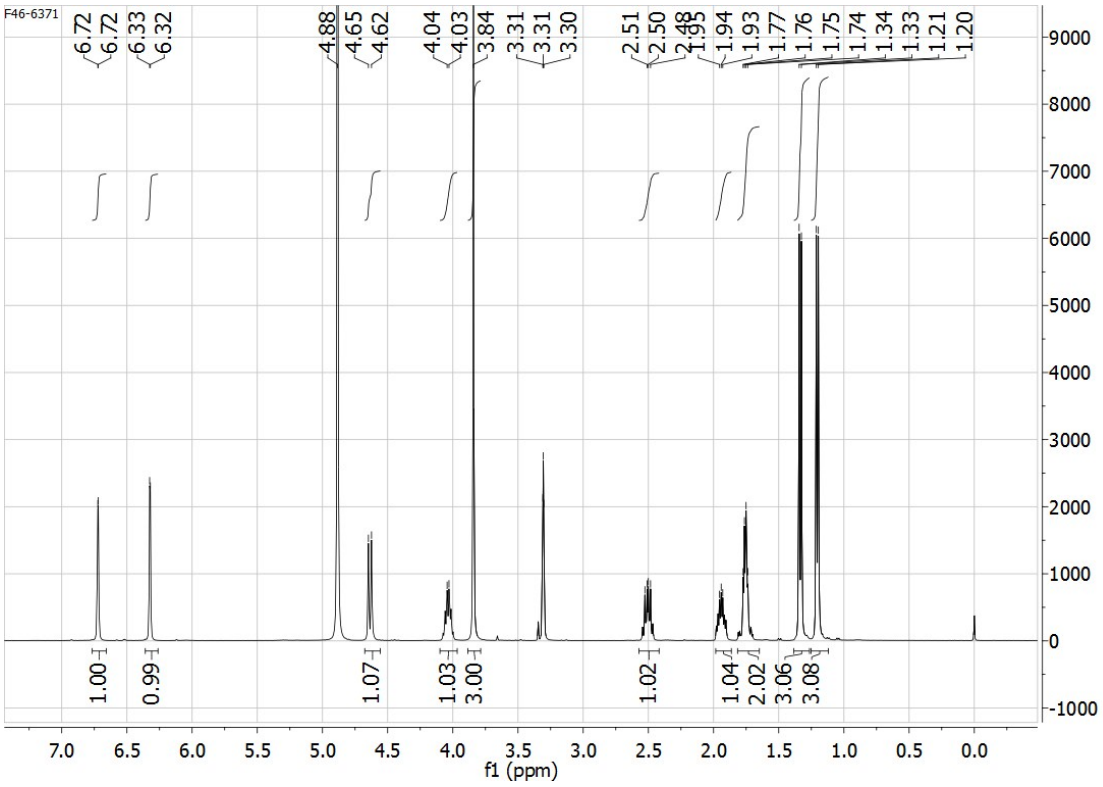

Figure S57. ^{1}H NMR spectrum (400 MHz) of **8** in CD_3OD.

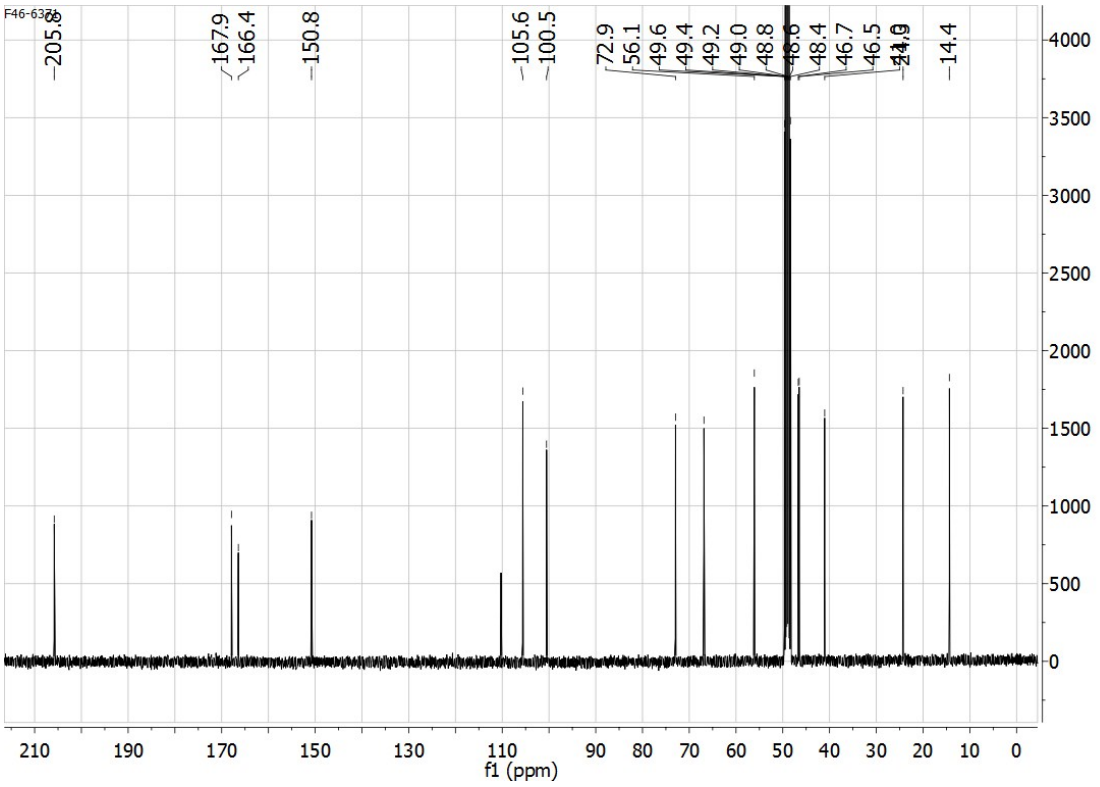

Figure S58. ^{13}C NMR spectrum (100 MHz) of **8** in CD_3OD.

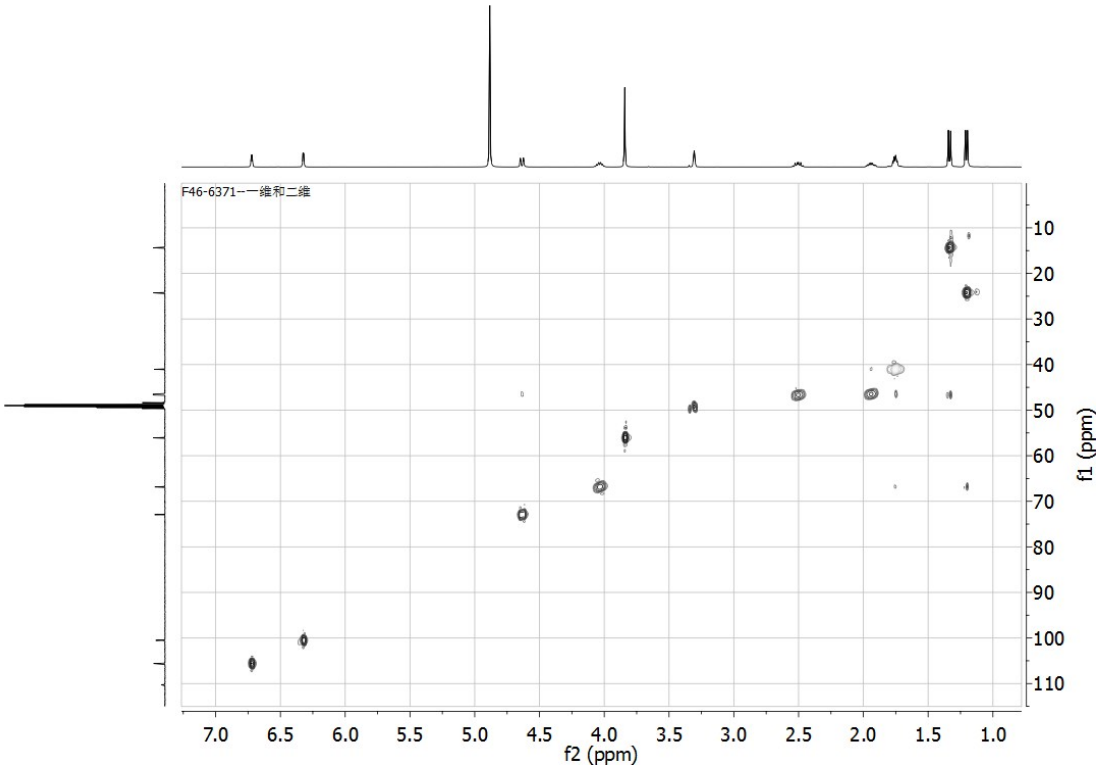

Figure S59. HSQC spectrum (400 MHz) of **8** in CD_3OD.

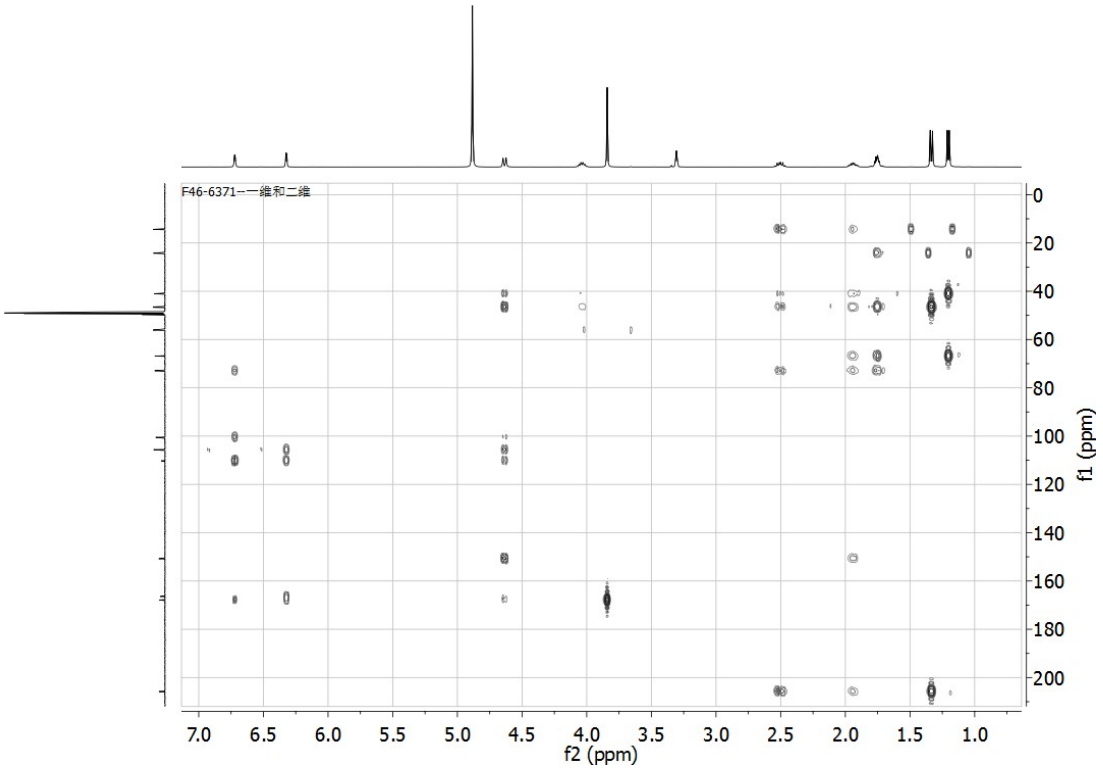

Figure S60. HMBC spectrum (400 MHz) of **8** in CD_3OD.

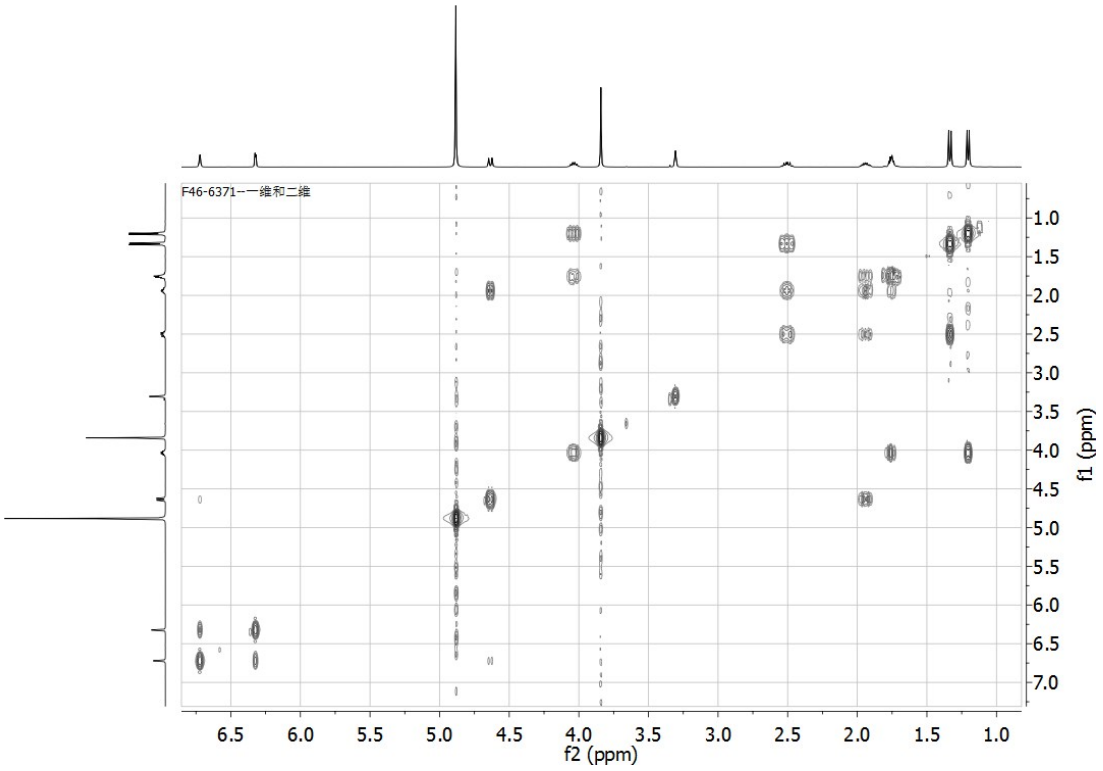

Figure S61. ^{1}H-^{1}H COSY spectrum (400 MHz) of **8** in CD_3OD.

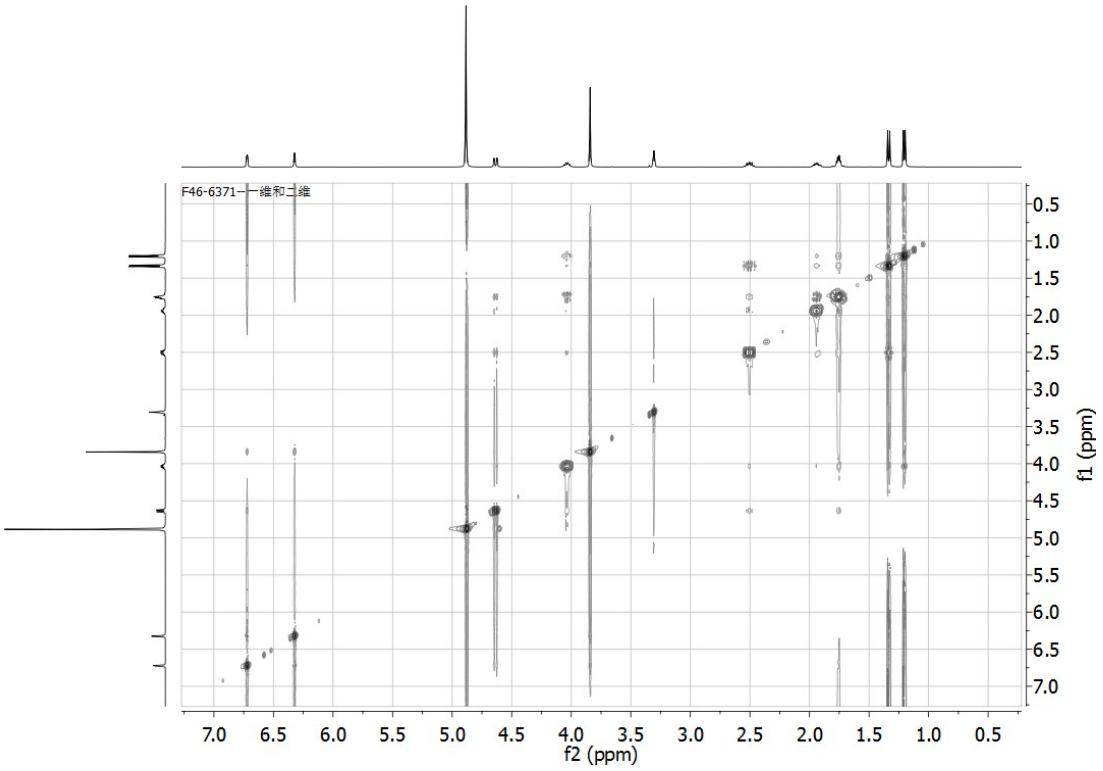

Figure S62. NOESY spectrum (400 MHz) of **8** in CD_3OD.

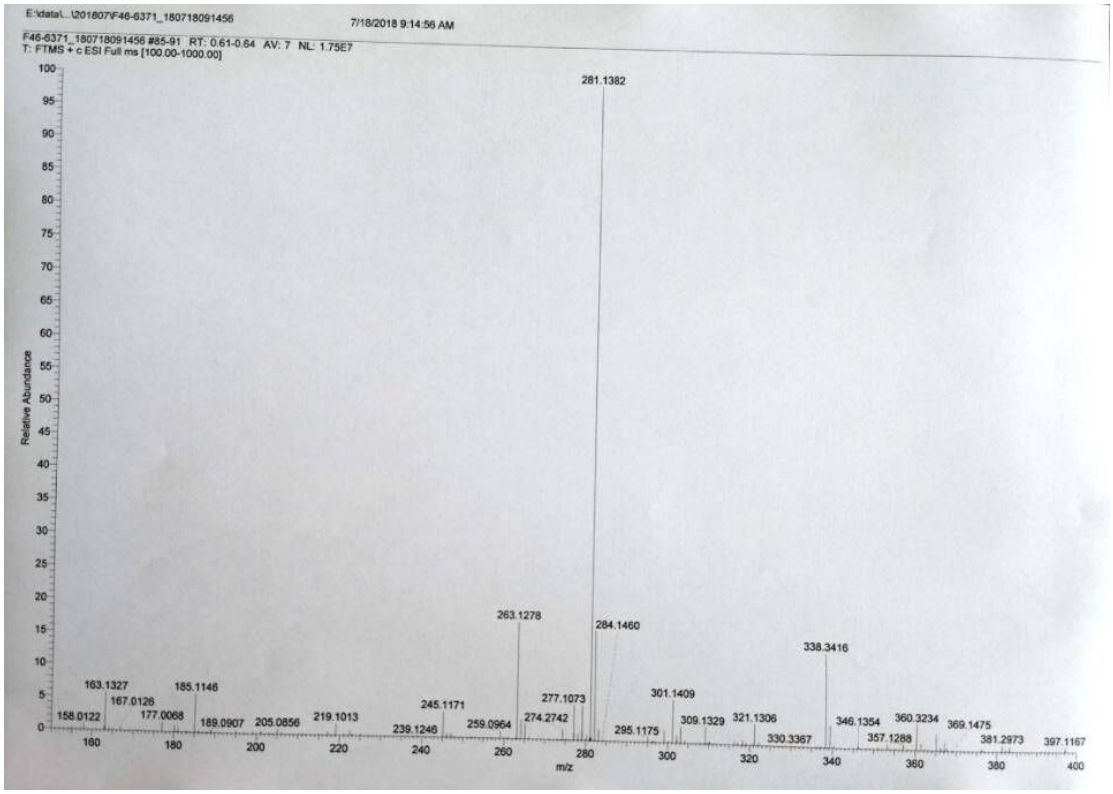

Figure S63. ESIHRMS spectrum of **8**.

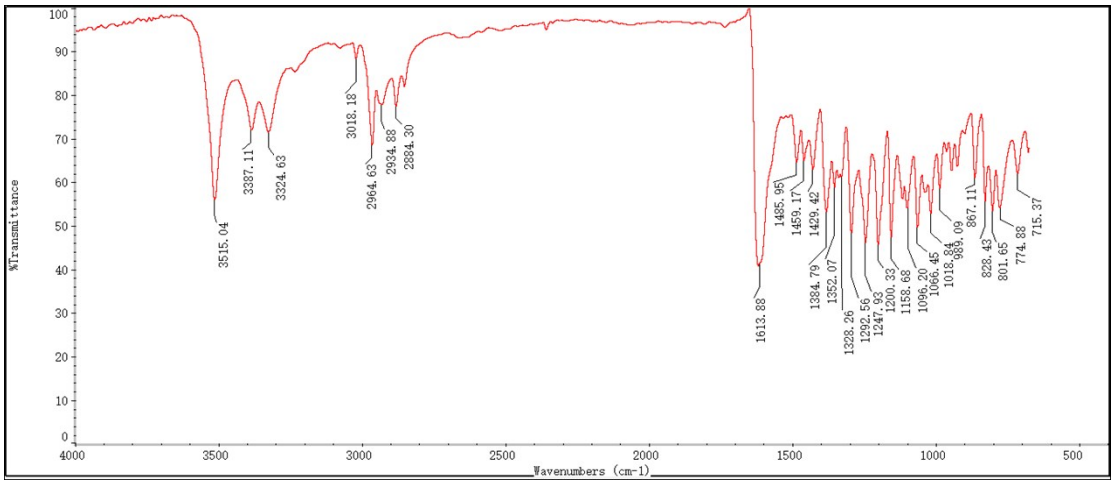

Figure S64. IR spectrum of **8**.

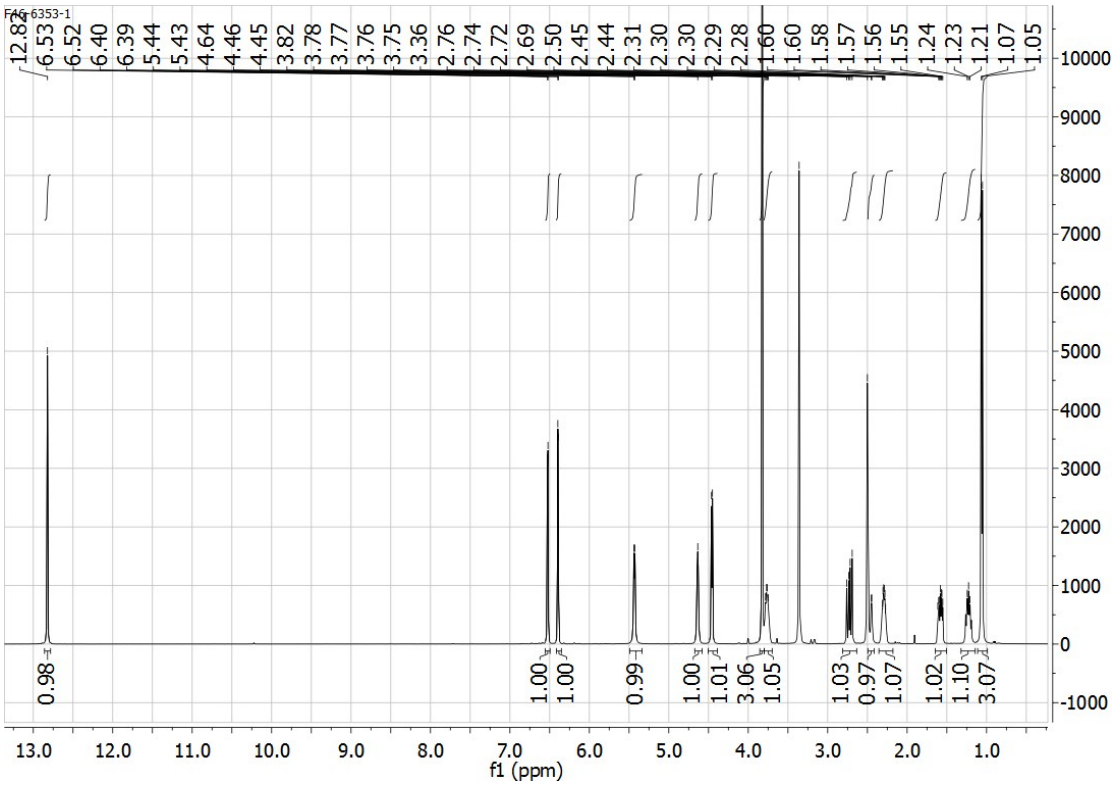

Figure S65. ^{1}H NMR spectrum (400 MHz) of **9** in DMSO-d_6.

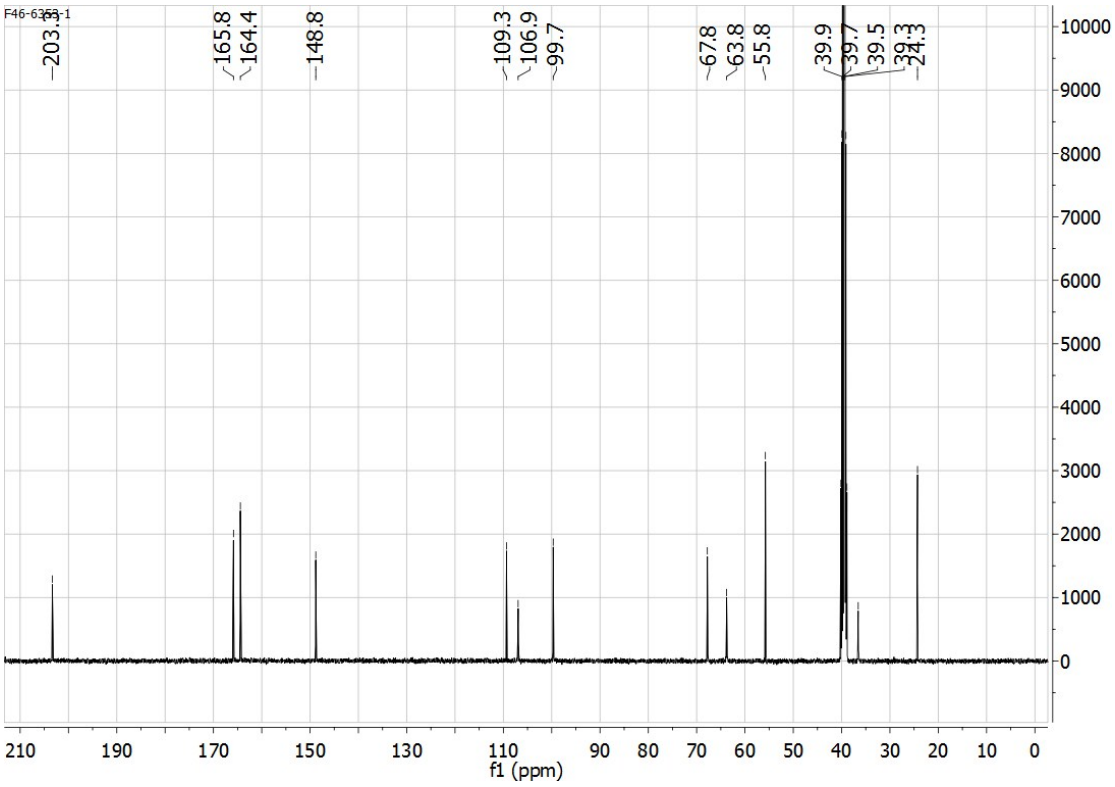

Figure S66. ^{13}C NMR spectrum (100 MHz) of **9** in DMSO-d_6.

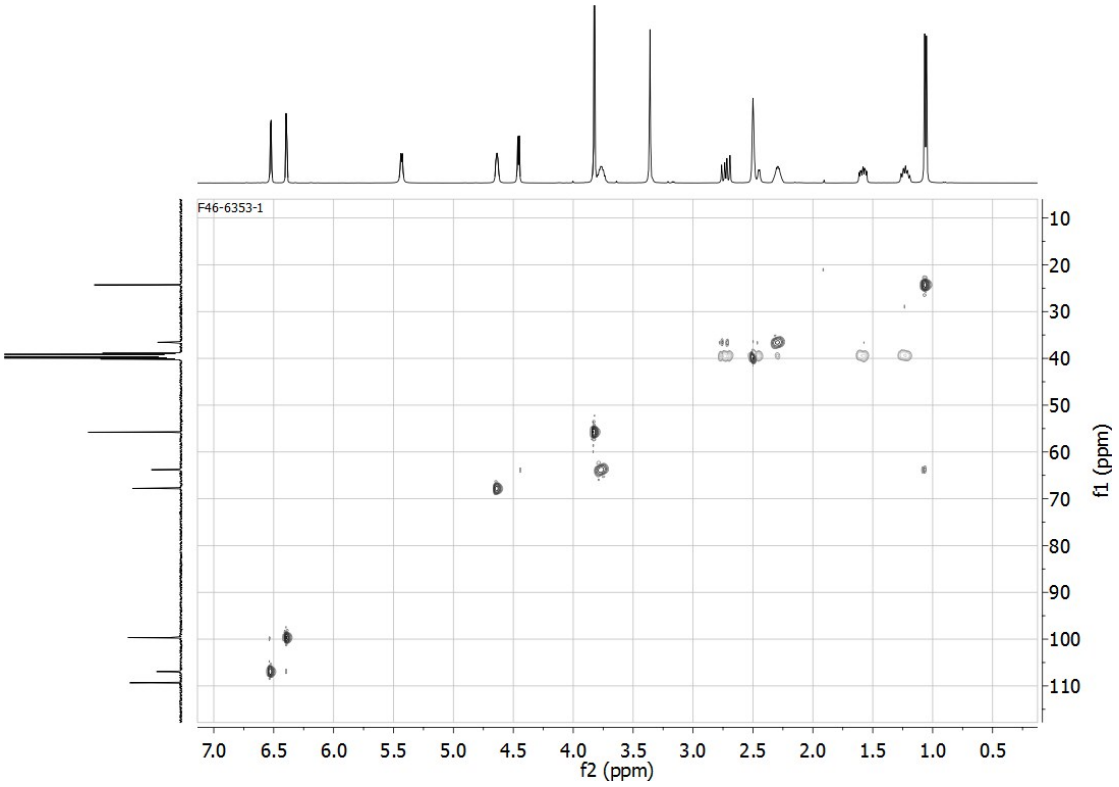

Figure S67. HSQC spectrum (400 MHz) of **9** in DMSO-d_6.

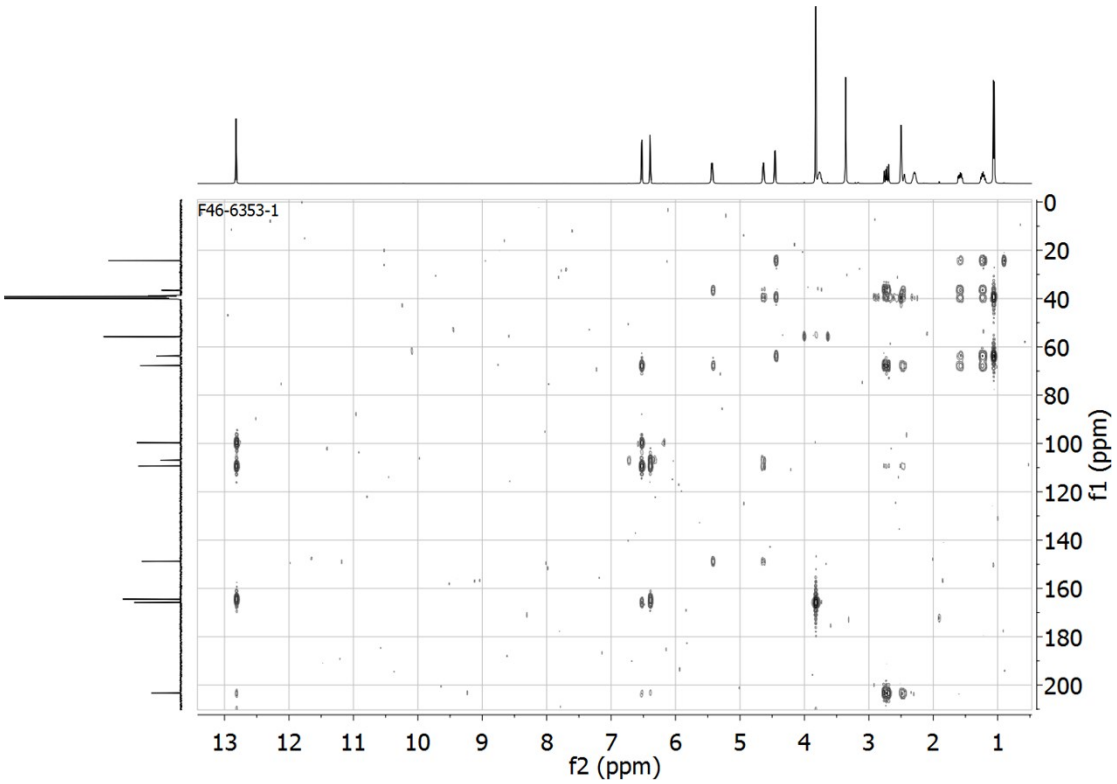

Figure S68. HMBC spectrum (400 MHz) of **9** in DMSO-d_6.

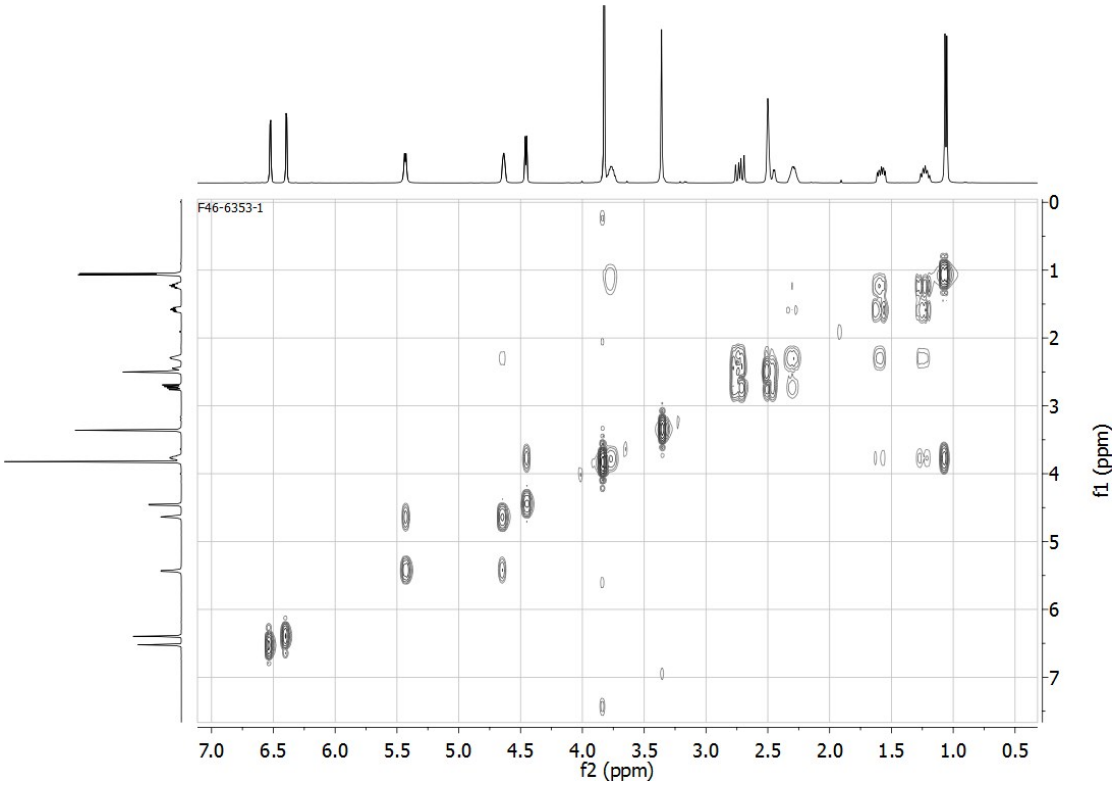

Figure S69. ^{1}H-^{1}H COSY spectrum (400 MHz) of **9** in DMSO-d_6.

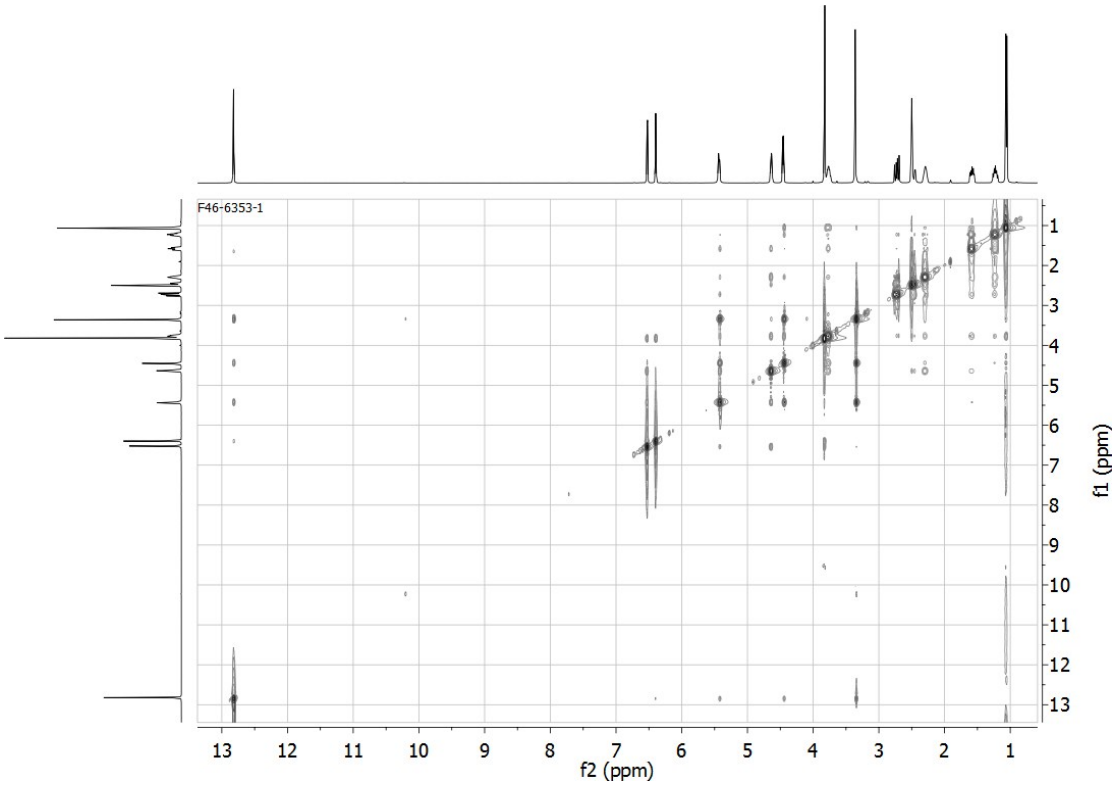

Figure S70. NOESY spectrum (400 MHz) of **9** in DMSO-d_6.

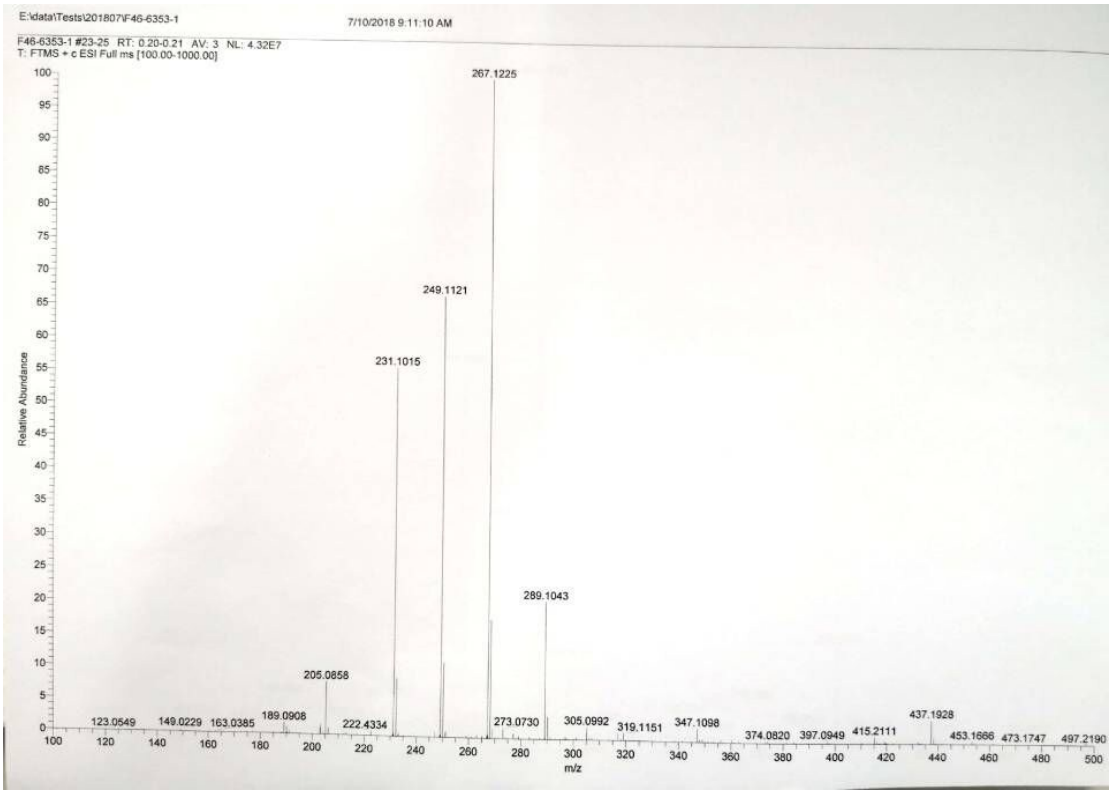

Figure S71. ESIHRMS spectrum of **9**.

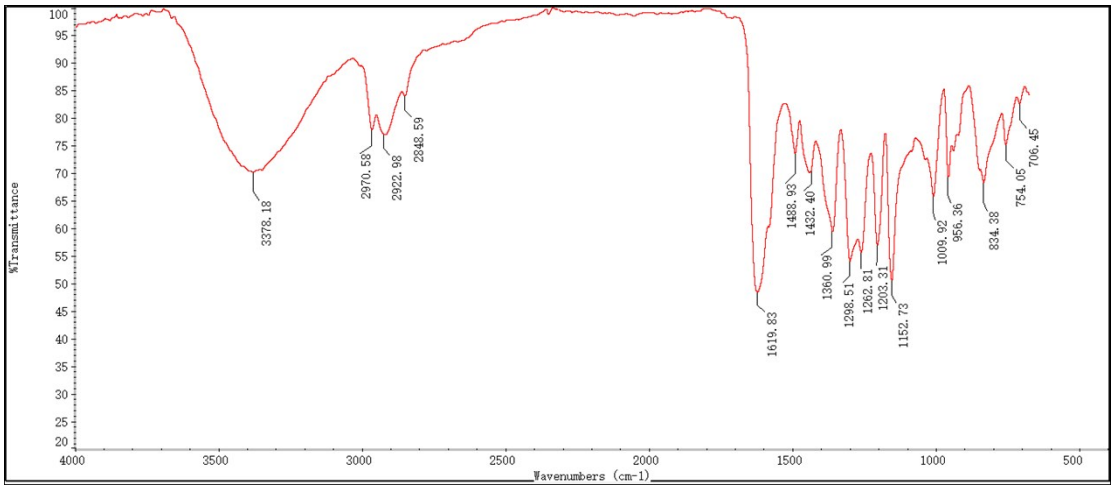

Figure S72. IR spectrum of **9**.

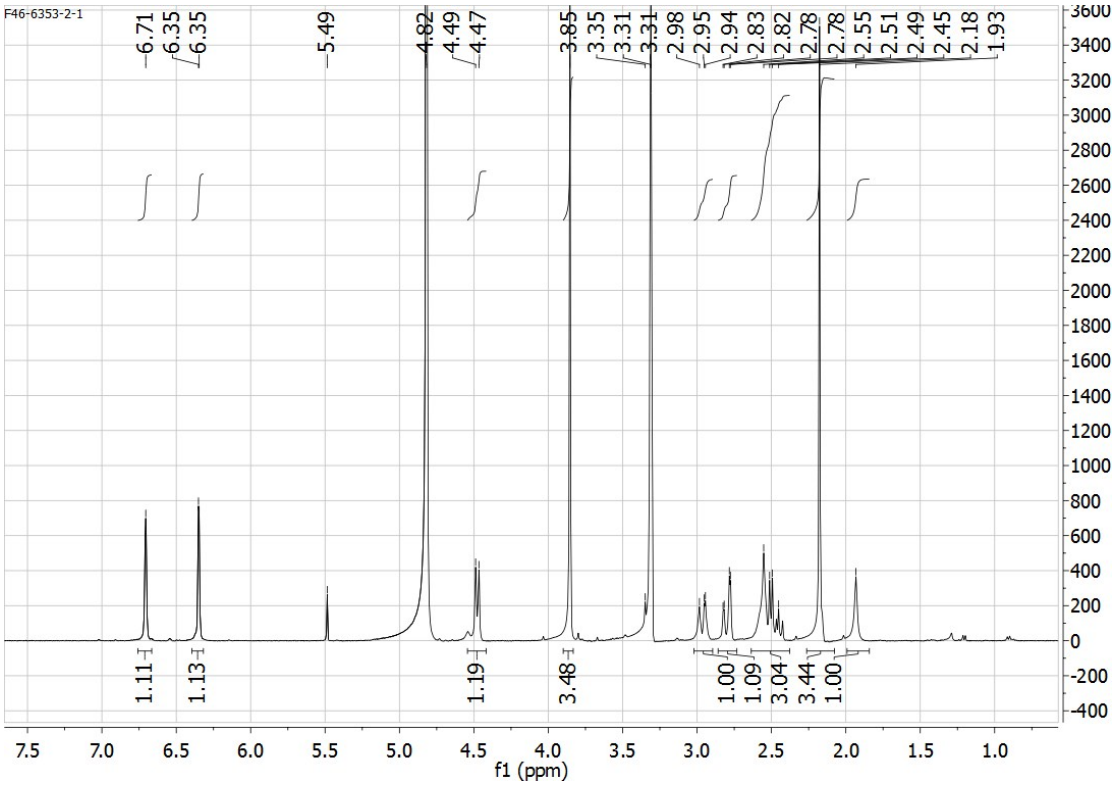

Figure S73. ^{1}H NMR spectrum (400 MHz) of **10** in CD_3OD.

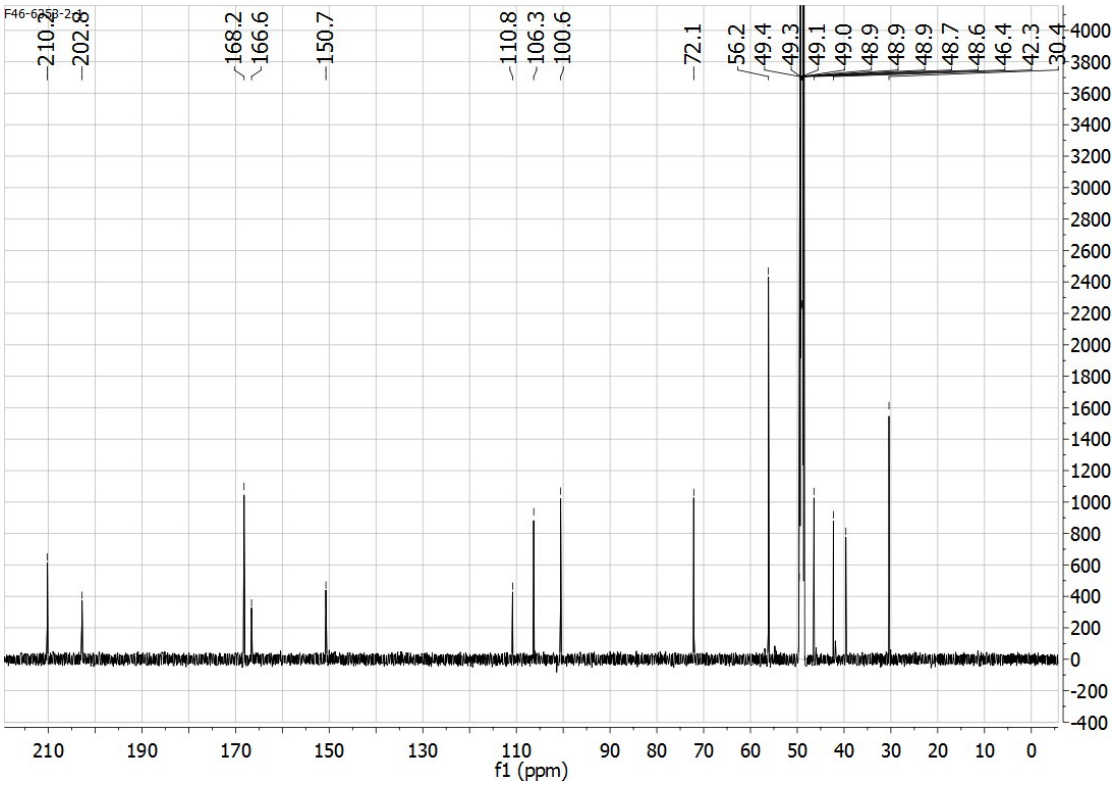

Figure S74. ^{13}C NMR spectrum (150 MHz) of **10** in CD_3OD.

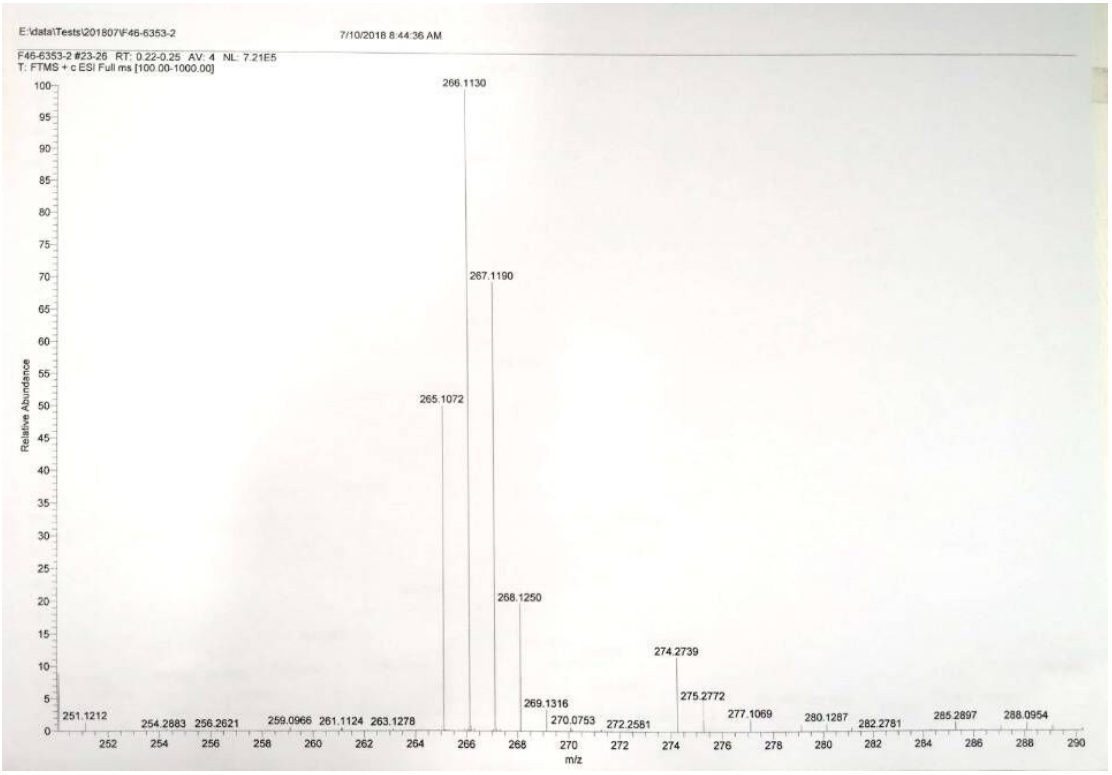

Figure S75. ESIHRMS spectrum of **10**.

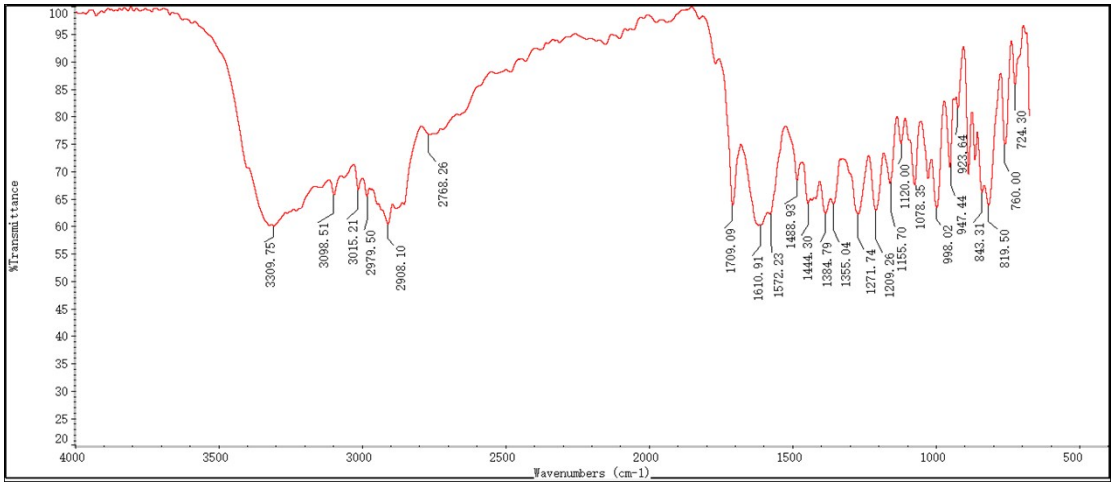

Figure S76. IR spectrum of **10**.

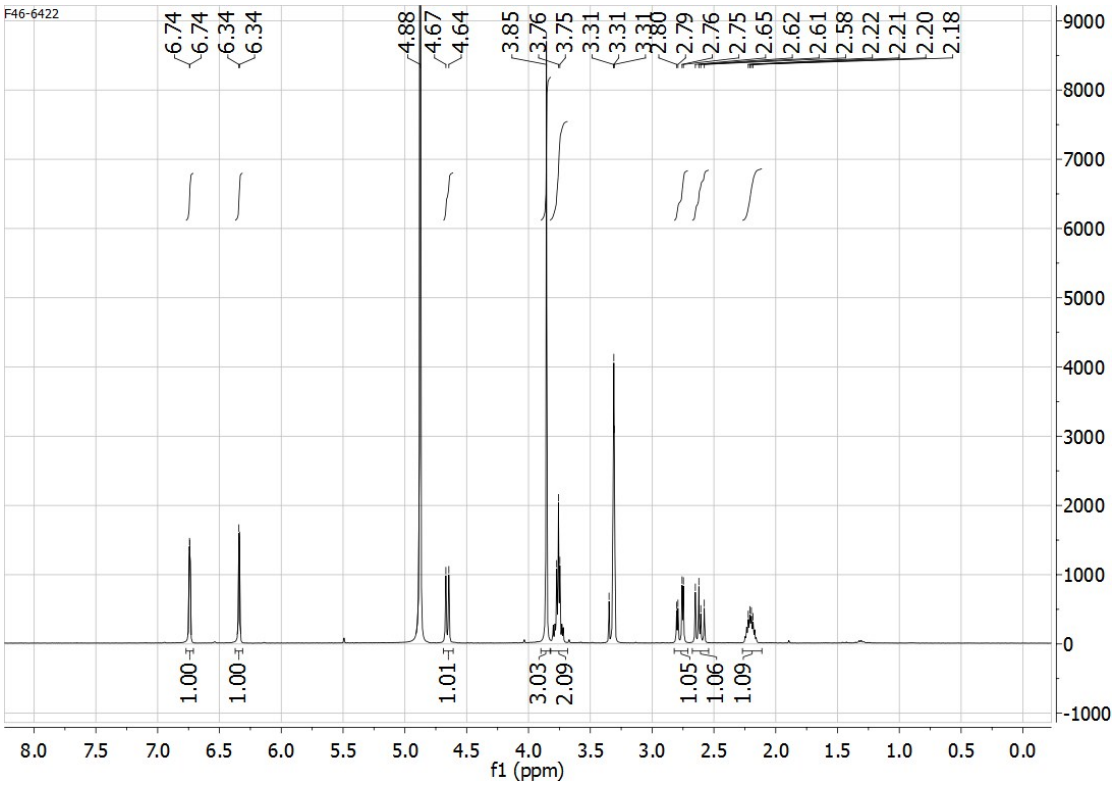

Figure S77. ^{1}H NMR spectrum (400 MHz) of **11** in CD_3OD.

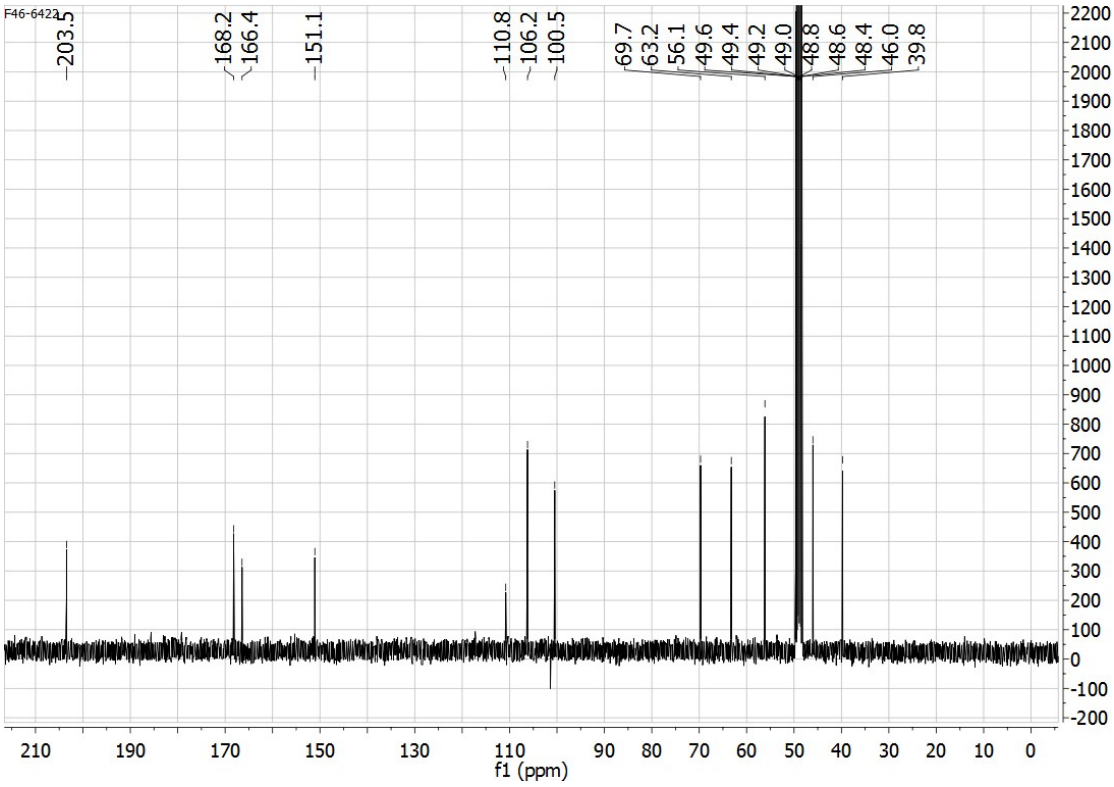

Figure S78. ^{13}C NMR spectrum (100 MHz) of **11** in CD_3OD.

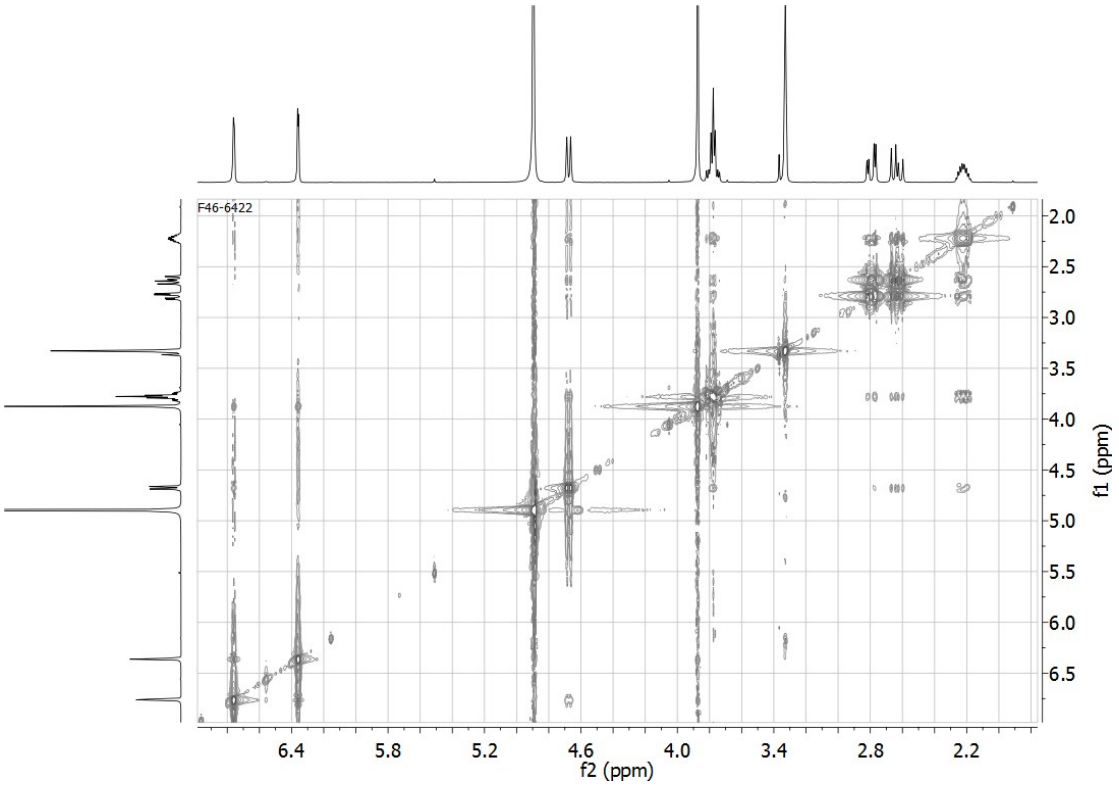

Figure S79. NOESY spectrum (400 MHz) of **11** in CD_3OD.

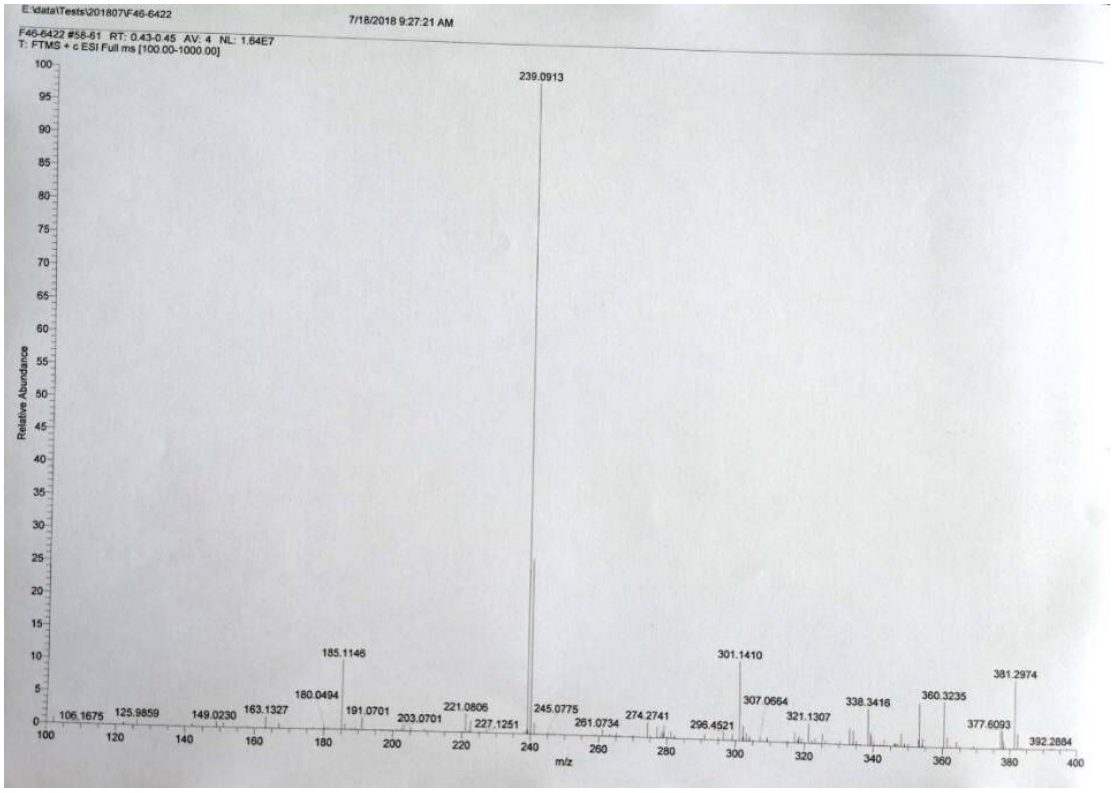

Figure S80. ESIHRMS spectrum of **11**.

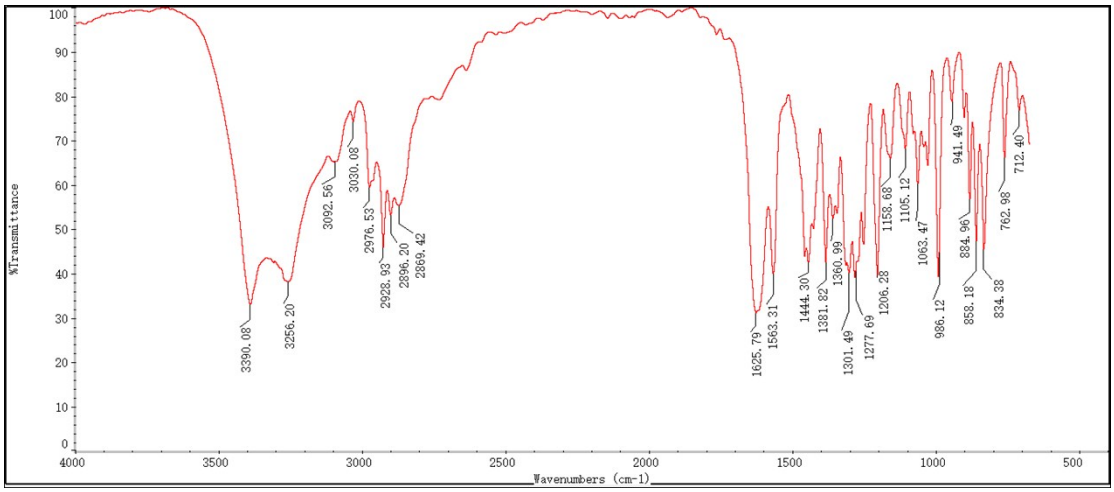

Figure S81. IR spectrum of **11**.

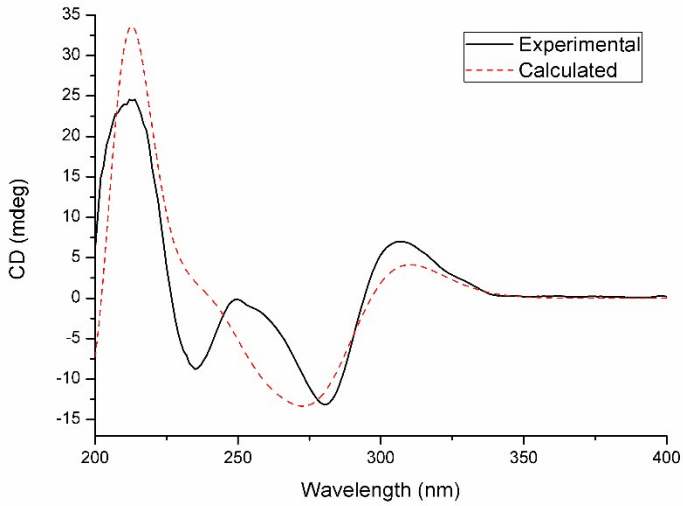

Figure S82. Experimental (black, solid) and calculated (red, dash) ECD curves of compound **10**.

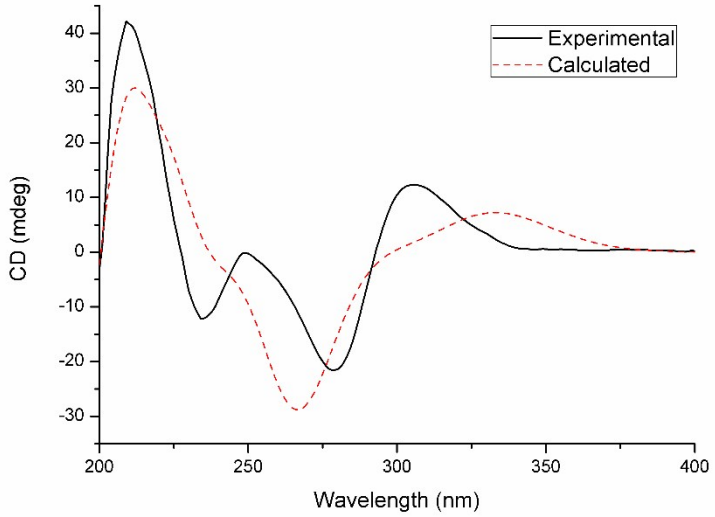

Figure S83. Experimental (black, solid) and calculated (red, dash) ECD curves of compound **11**.

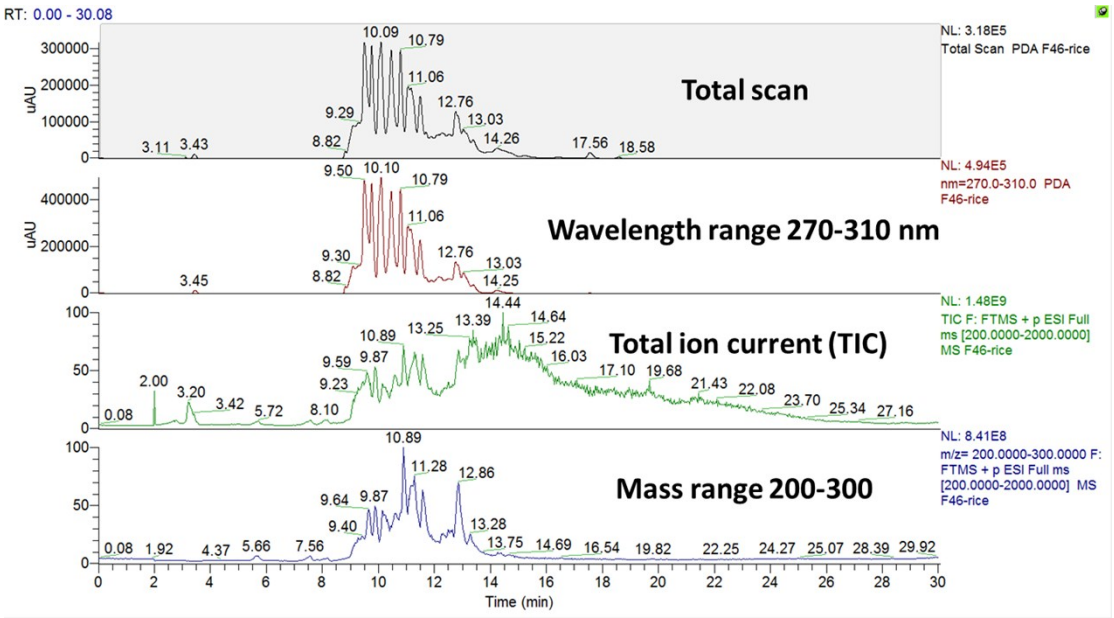

Figure S84. LC-ESI-HRMS analysis of the crude extract of endophytic fungus *Pleosporales* sp. F46.

Table S1. The antifungal and cytotoxic activities of compounds **1-11**.

No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**Fluconazole**	**Adriamycin**
Candida albicans SC5314 (μg mL^{-1})	**128**	>128	>128	>128	>128	>128	>128	>128	>128	>128	>128	**2.0**	--
A549 (μM)	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	--	1.5±0.1
SMMC-721 (μM)	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	--	1.3±0.2
MDA-MB-231 (μM)	>80	>80	>80	>80	>80	>80	**22.4±1.1**	>80	>80	>80	>80	--	**0.45±0.1**