

Supplementary Information

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Figure S1. ¹H NMR spectrum of 1.

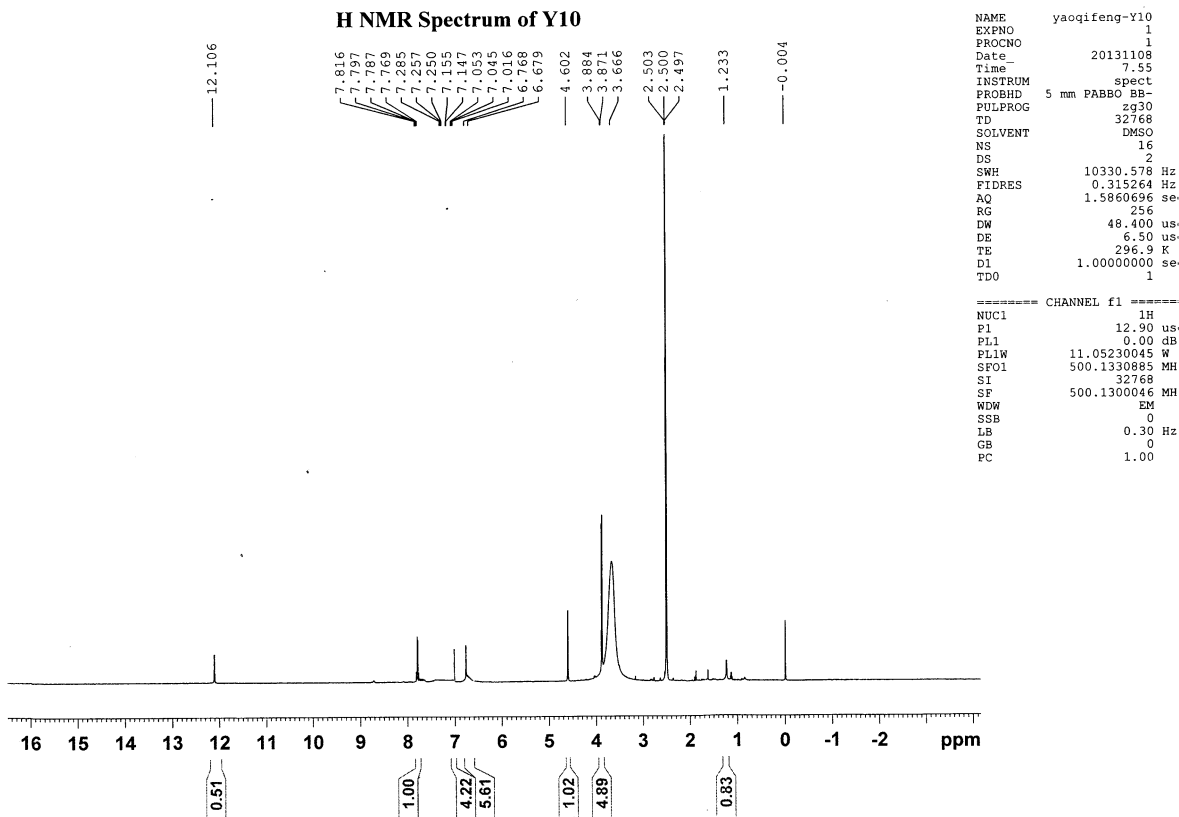


Figure S2. ¹³C NMR spectrum of 1.

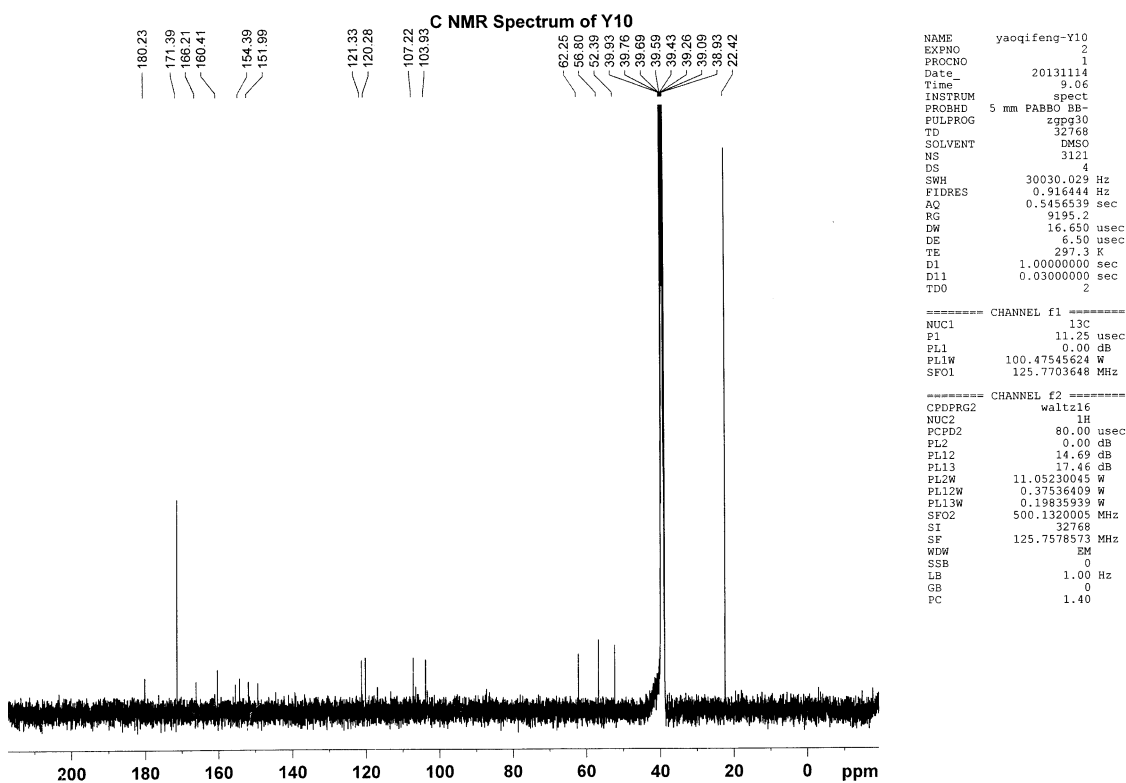


Figure S3. HMBC spectrum of 1 and partial enlarged view for the assignment of C-13.

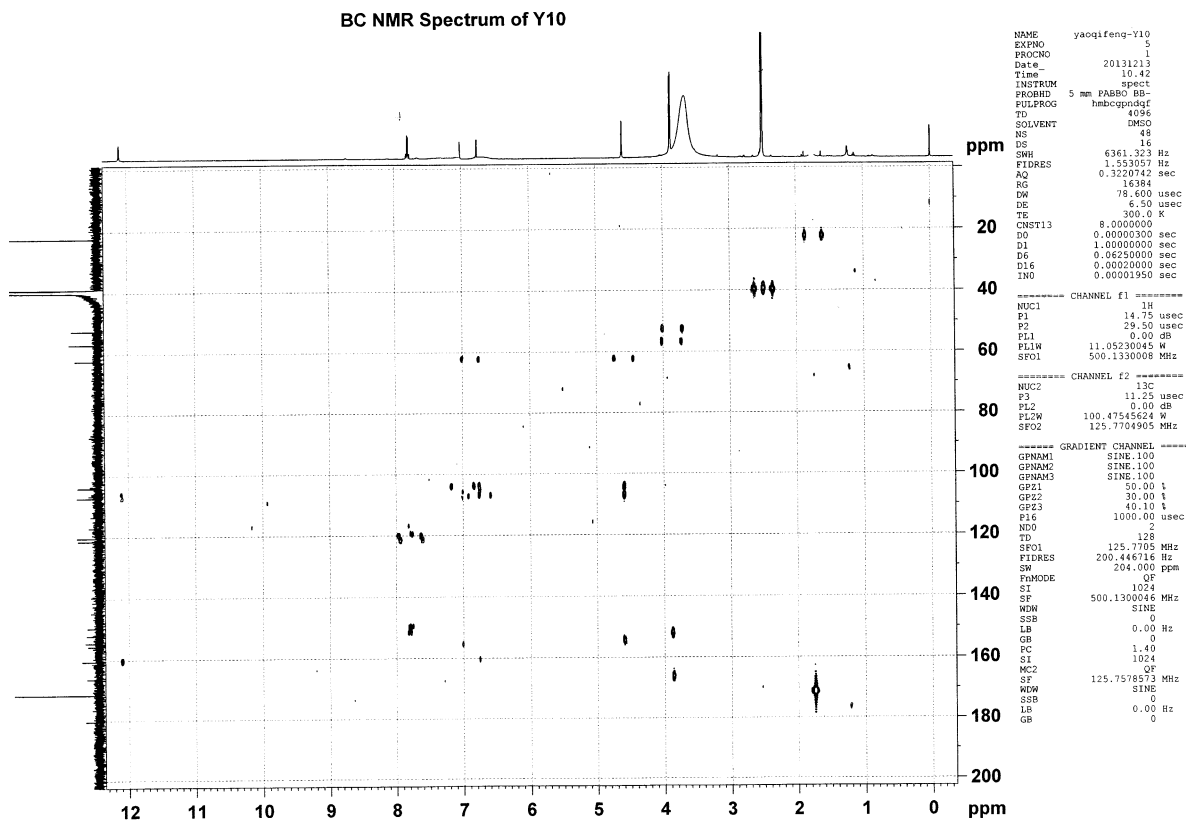


Figure S4. HRESIMS spectrum of 1.

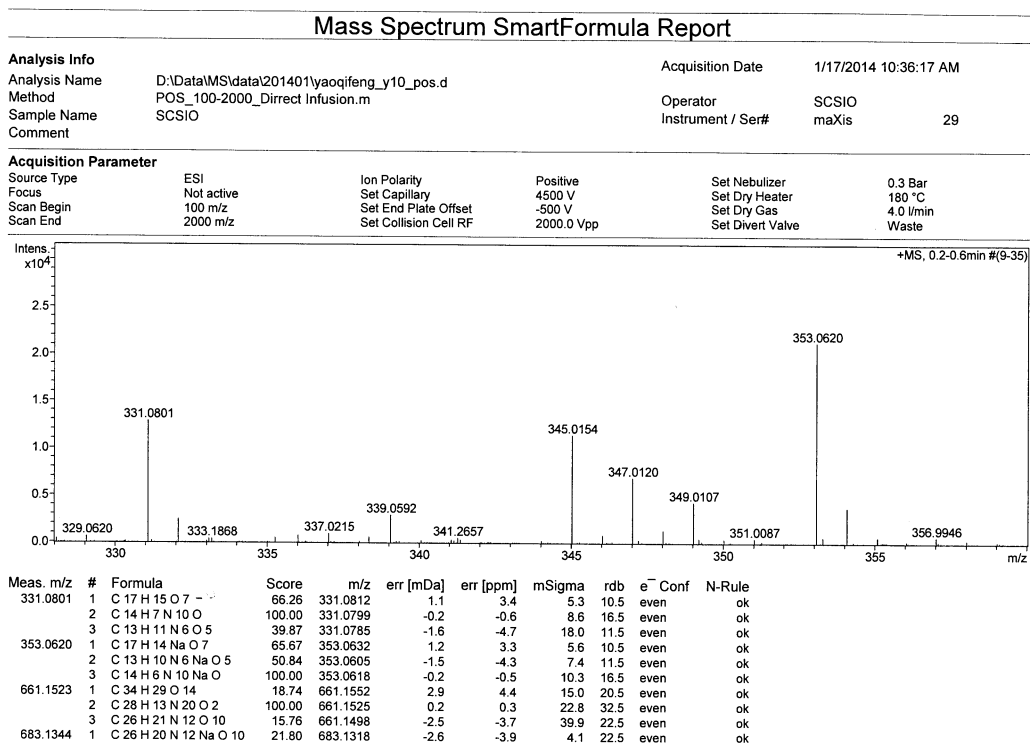


Figure S5. IR spectrum of 1.

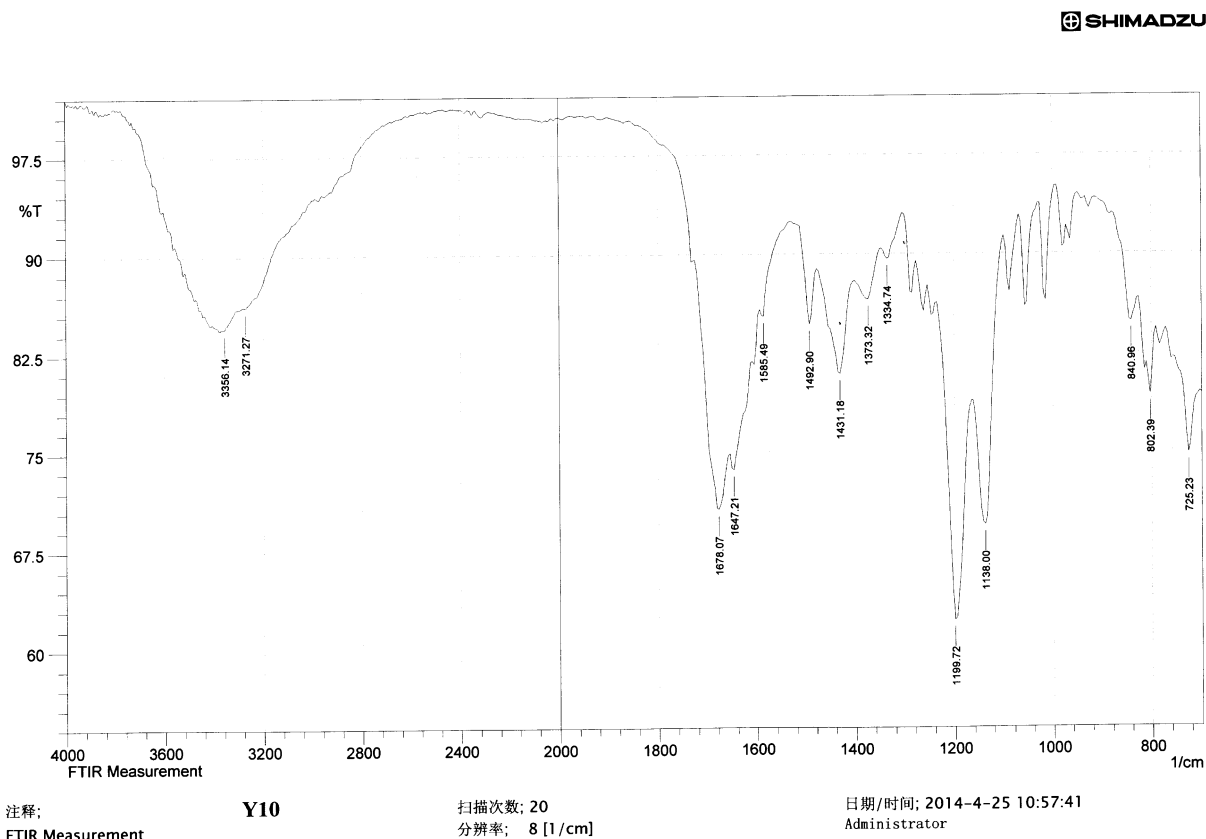


Figure S6. ¹H NMR spectrum of 2.

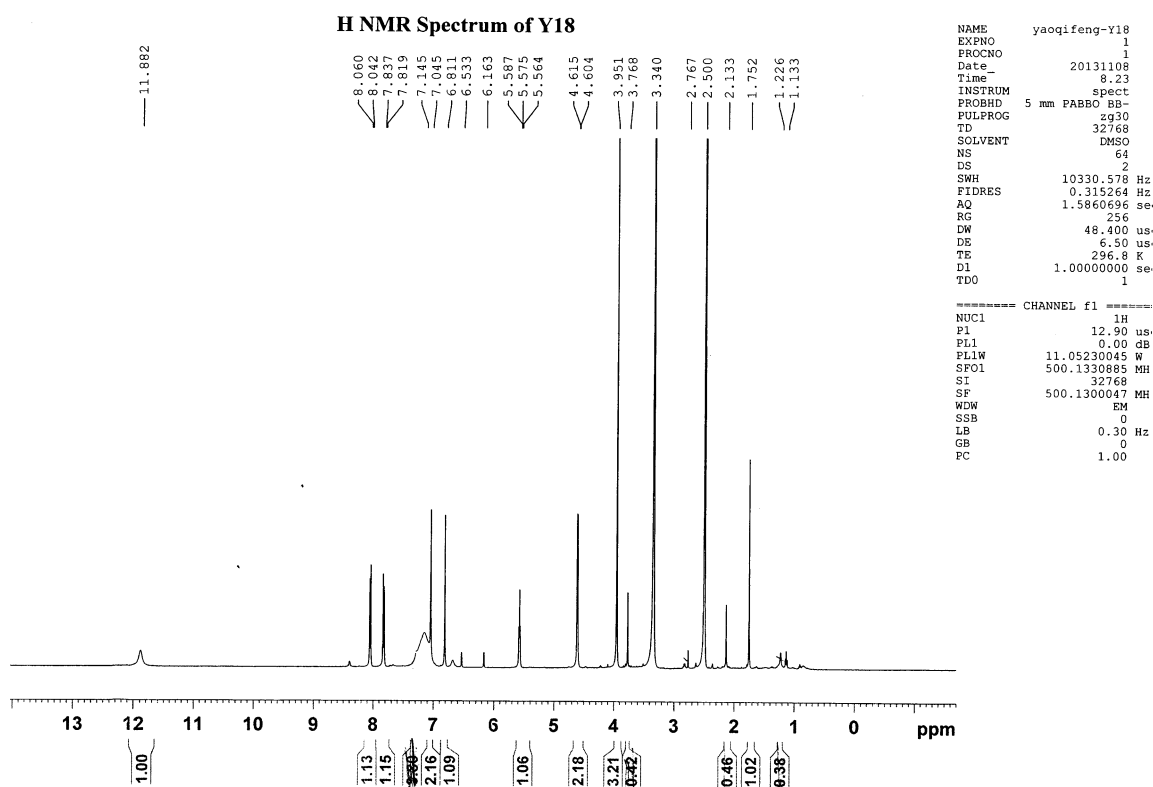


Figure S7. ¹³C NMR spectrum of 2.

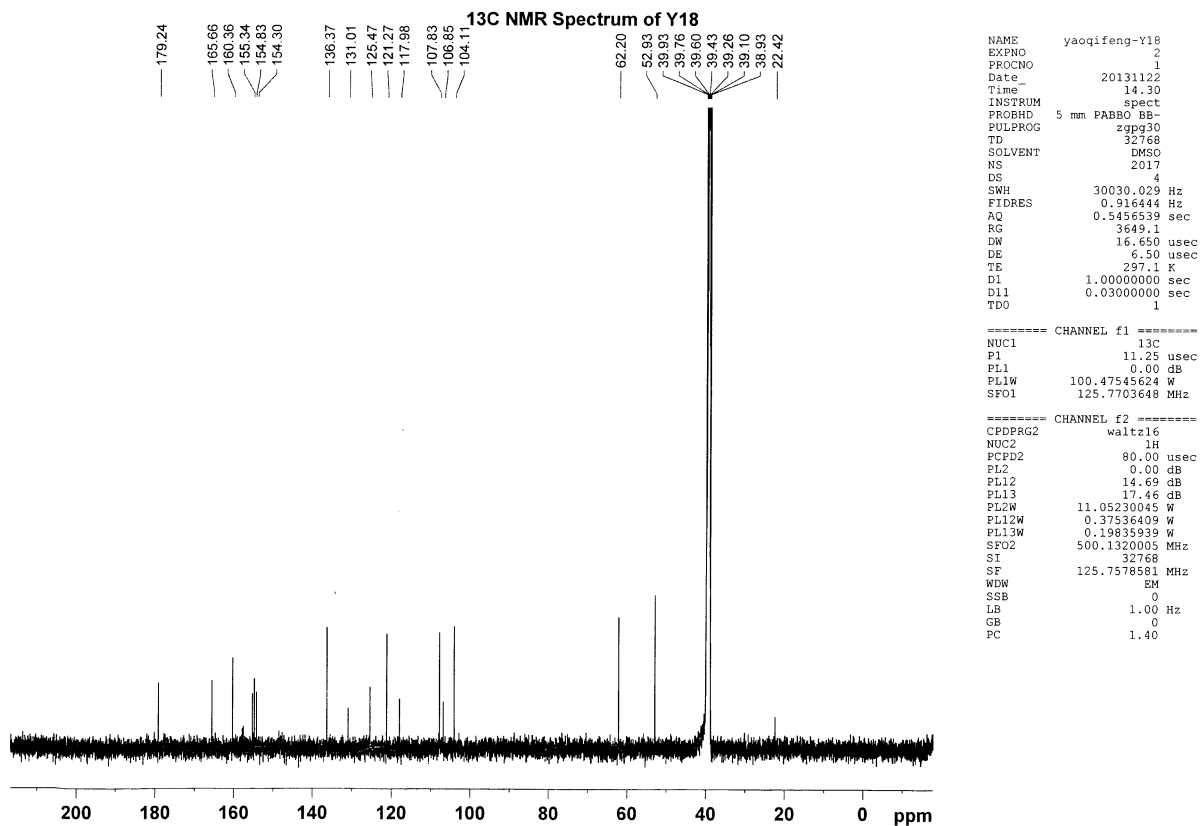


Figure S8. HMBC spectrum of 2.

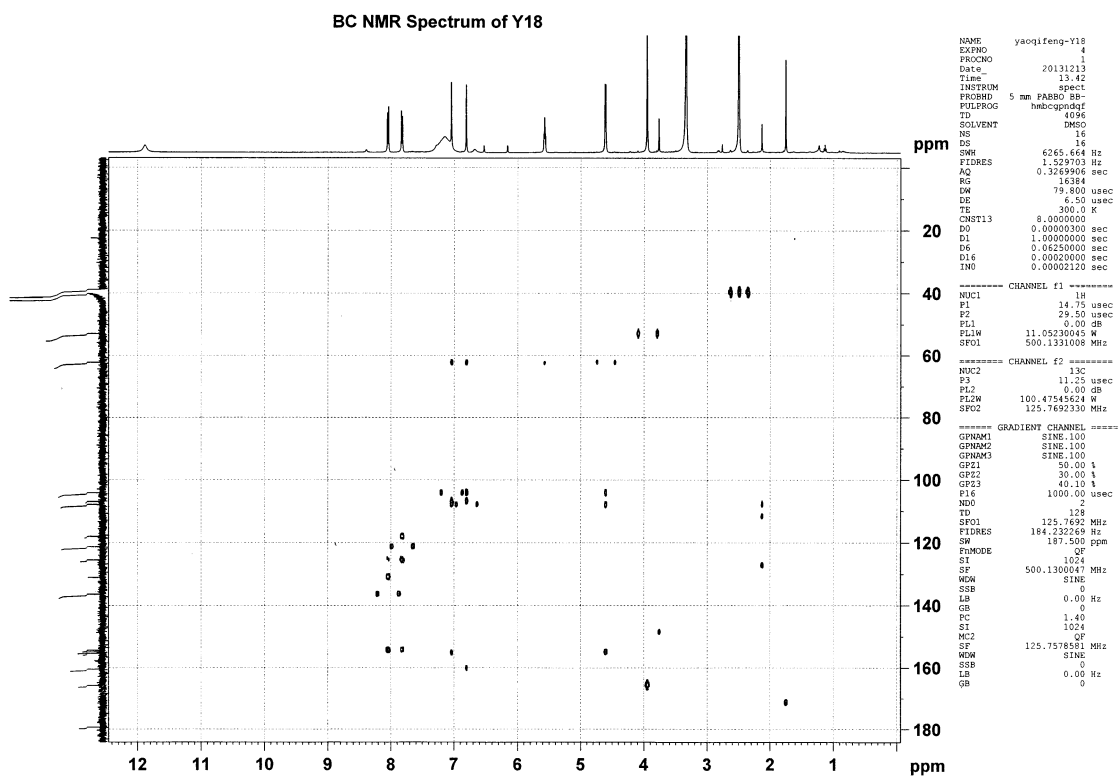


Figure S11. ¹H NMR spectrum of 3.

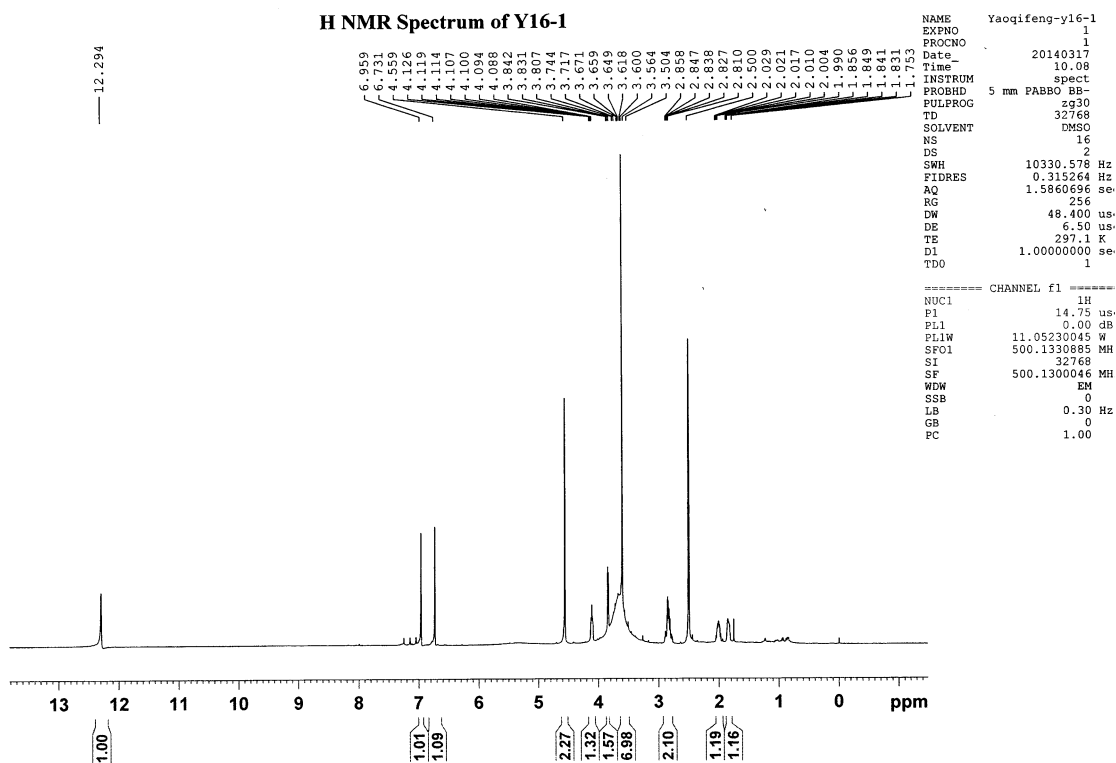


Figure S12. ¹³C NMR spectrum of 3.

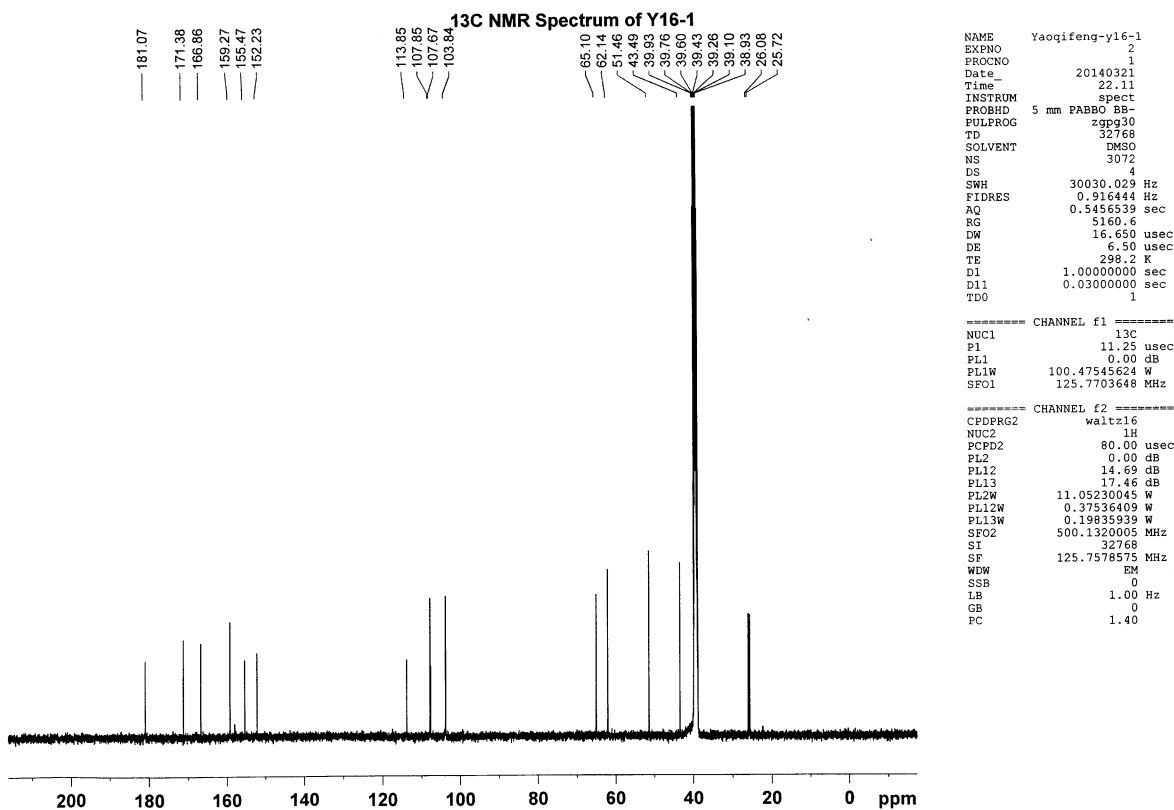


Figure S13. HSQC spectrum of 3.

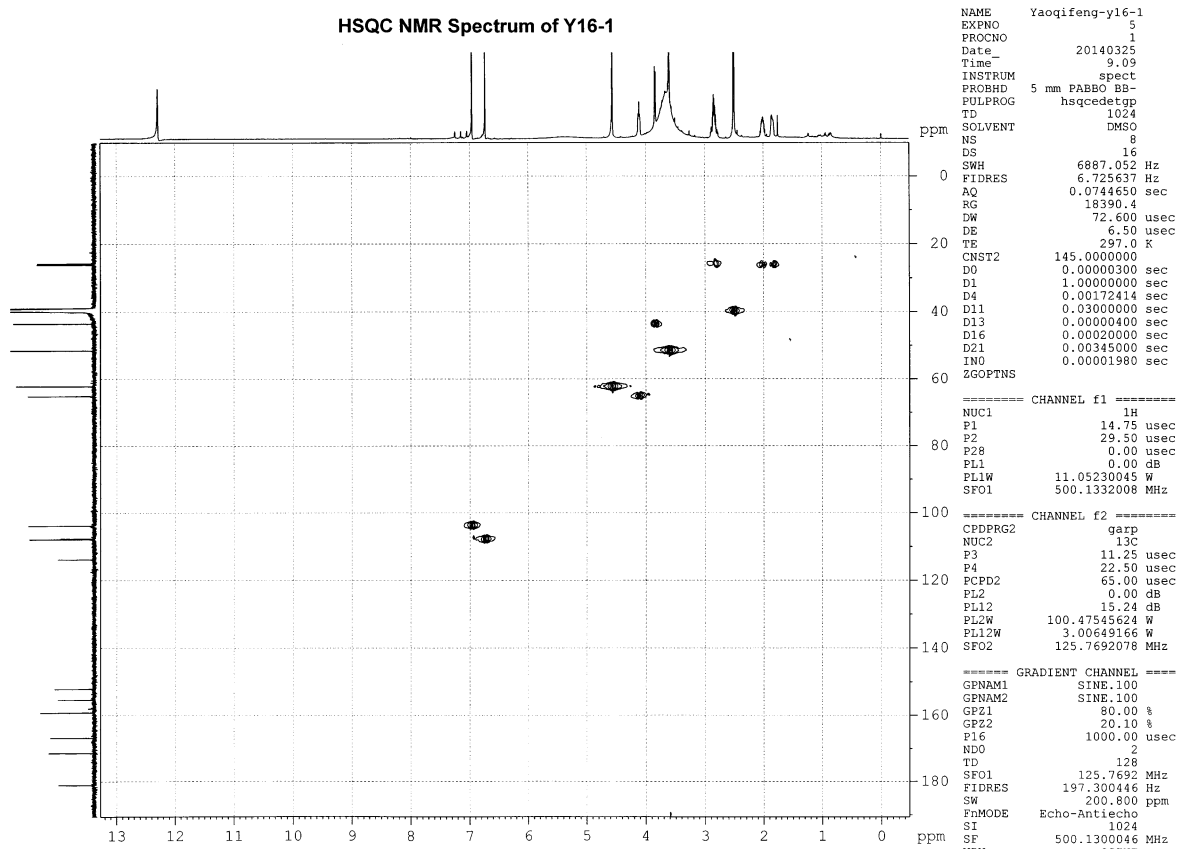


Figure S14. HMBC spectrum of 3.

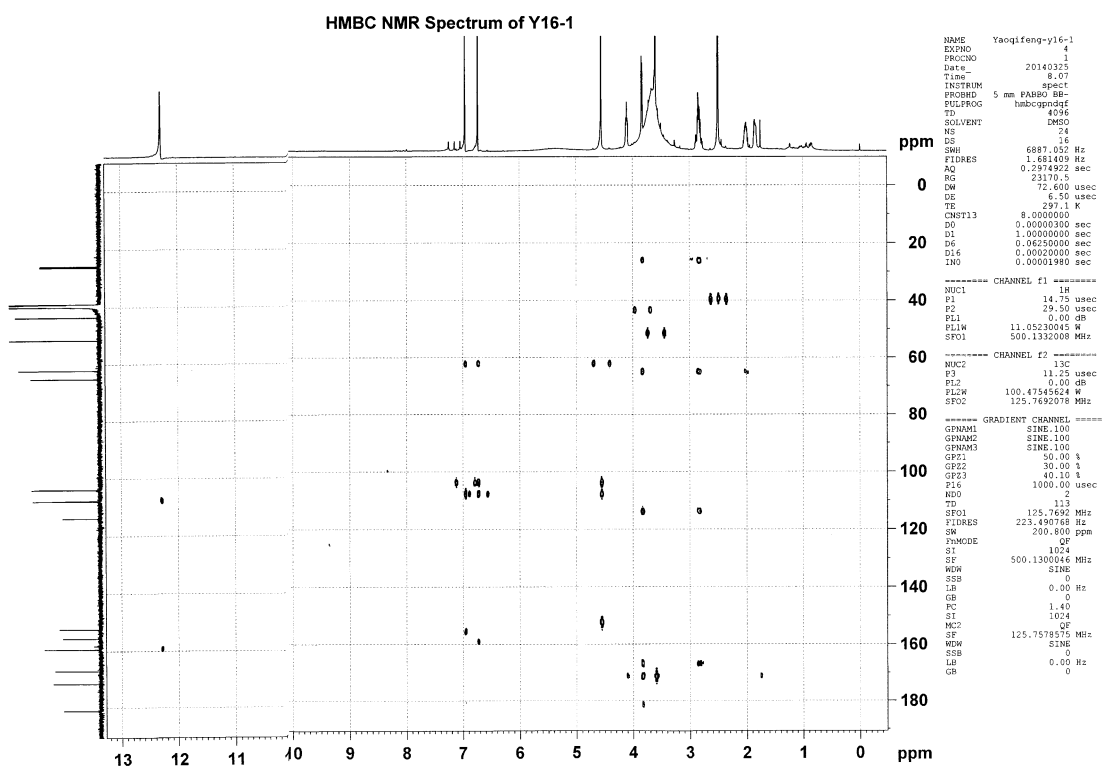


Figure S15. NOESY spectrum of 3.

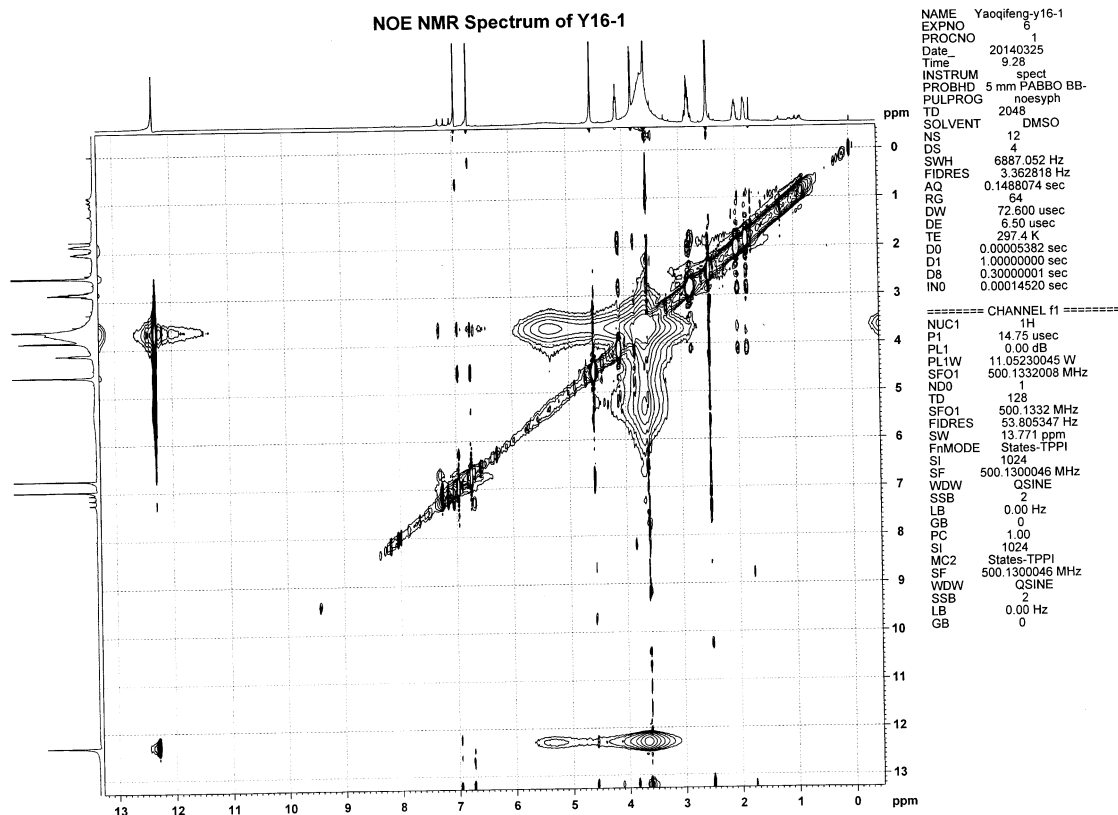


Figure S16. HRESIMS spectrum of 3.

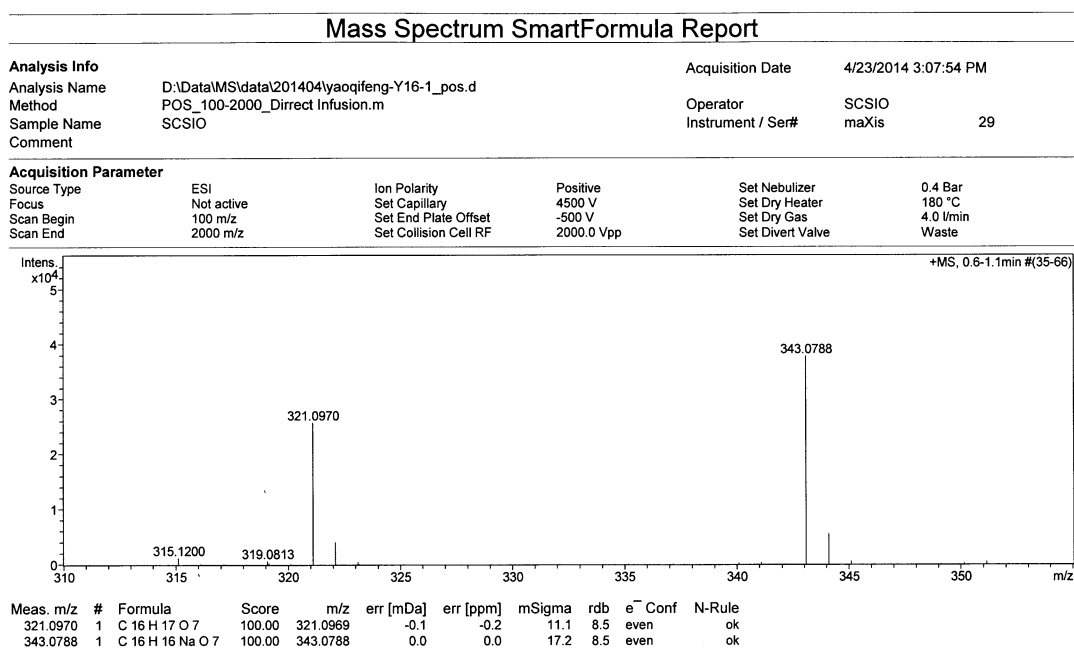


Figure S17. IR spectrum of 3.

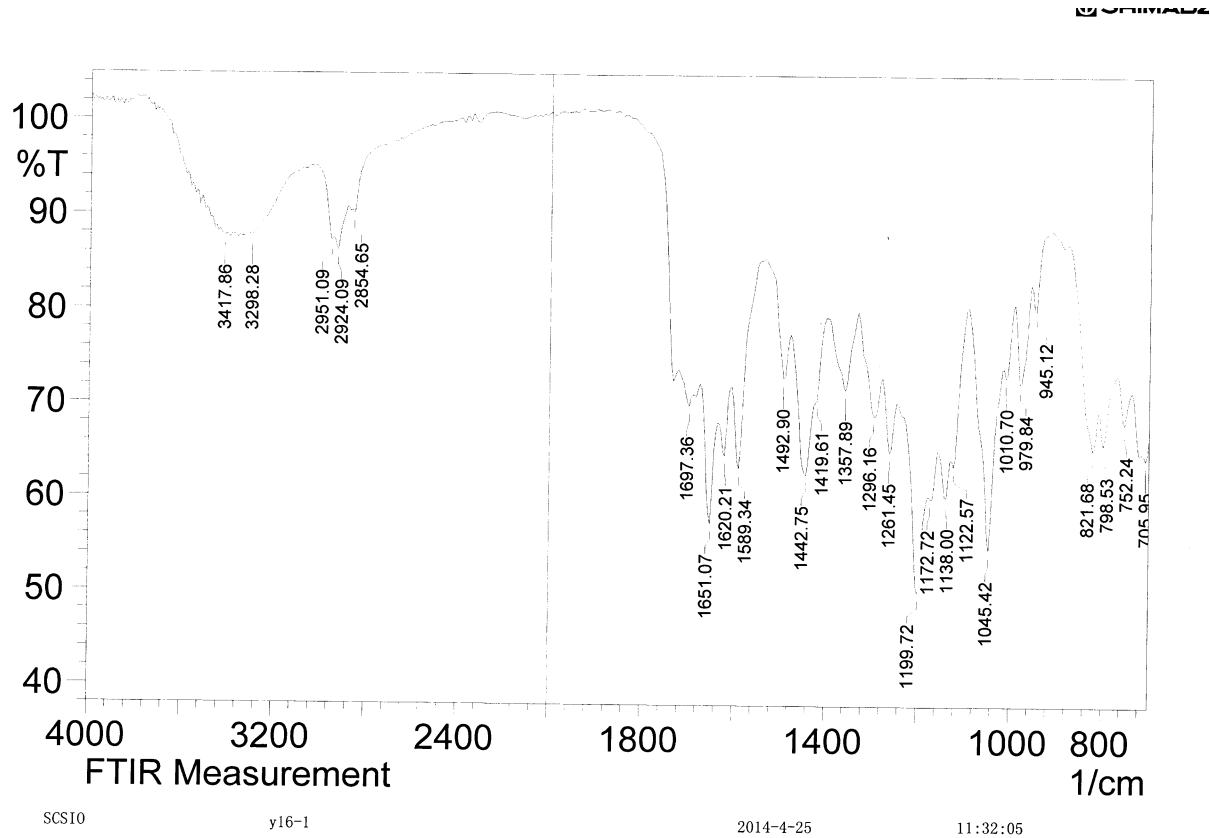


Figure S18. ¹H NMR spectrum of 4.

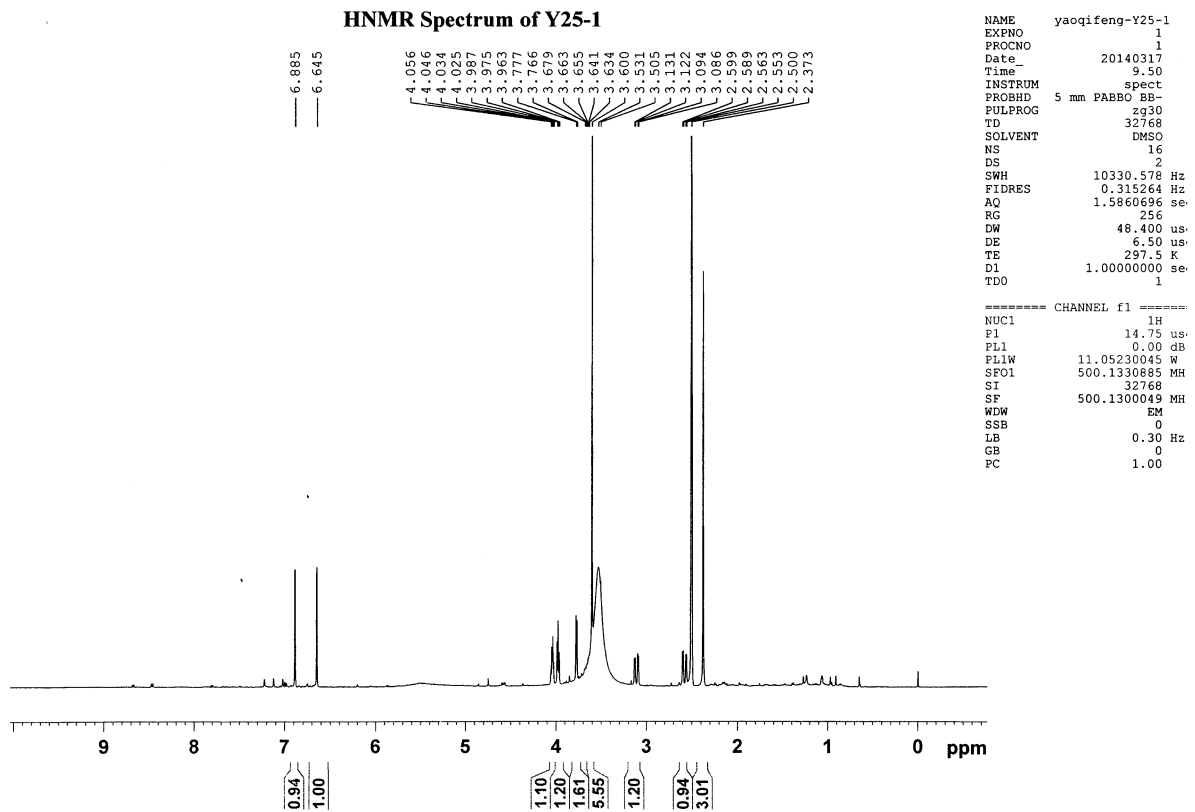


Figure S19. ¹³C NMR spectrum of 4.

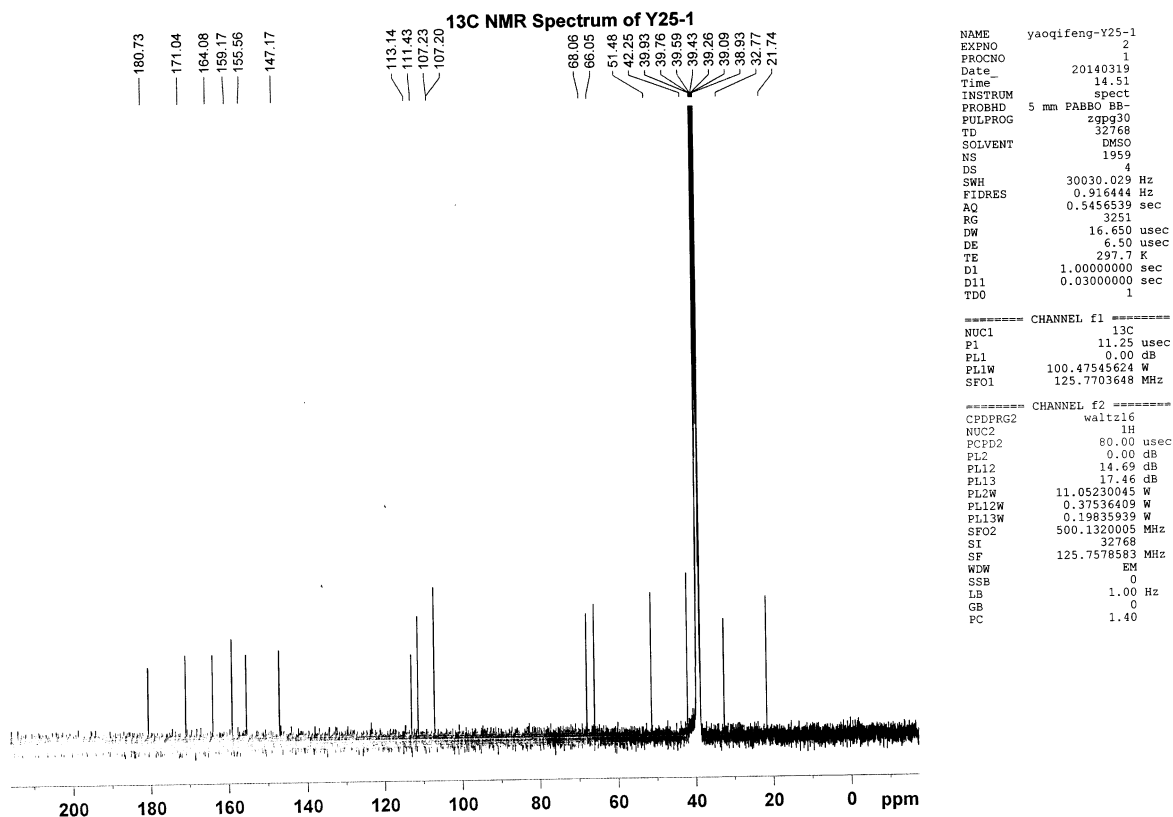


Figure S20. HSQC spectrum of 4.

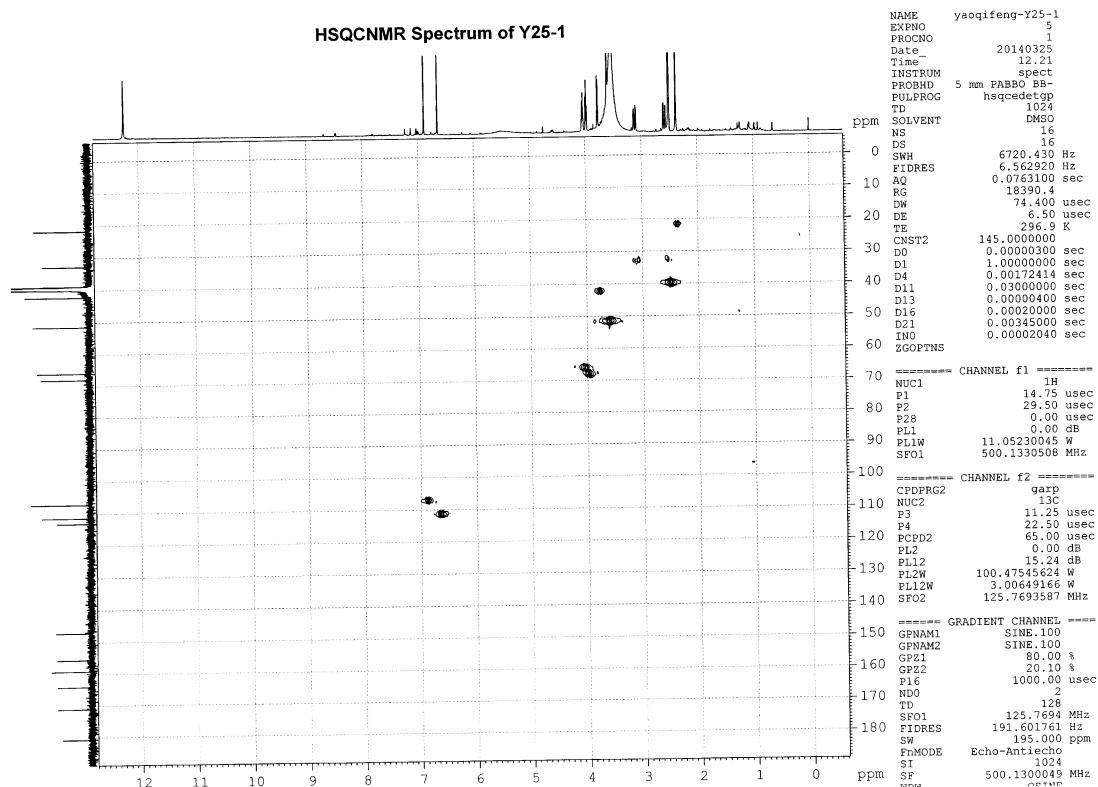


Figure S21. HMBC spectrum of 4.

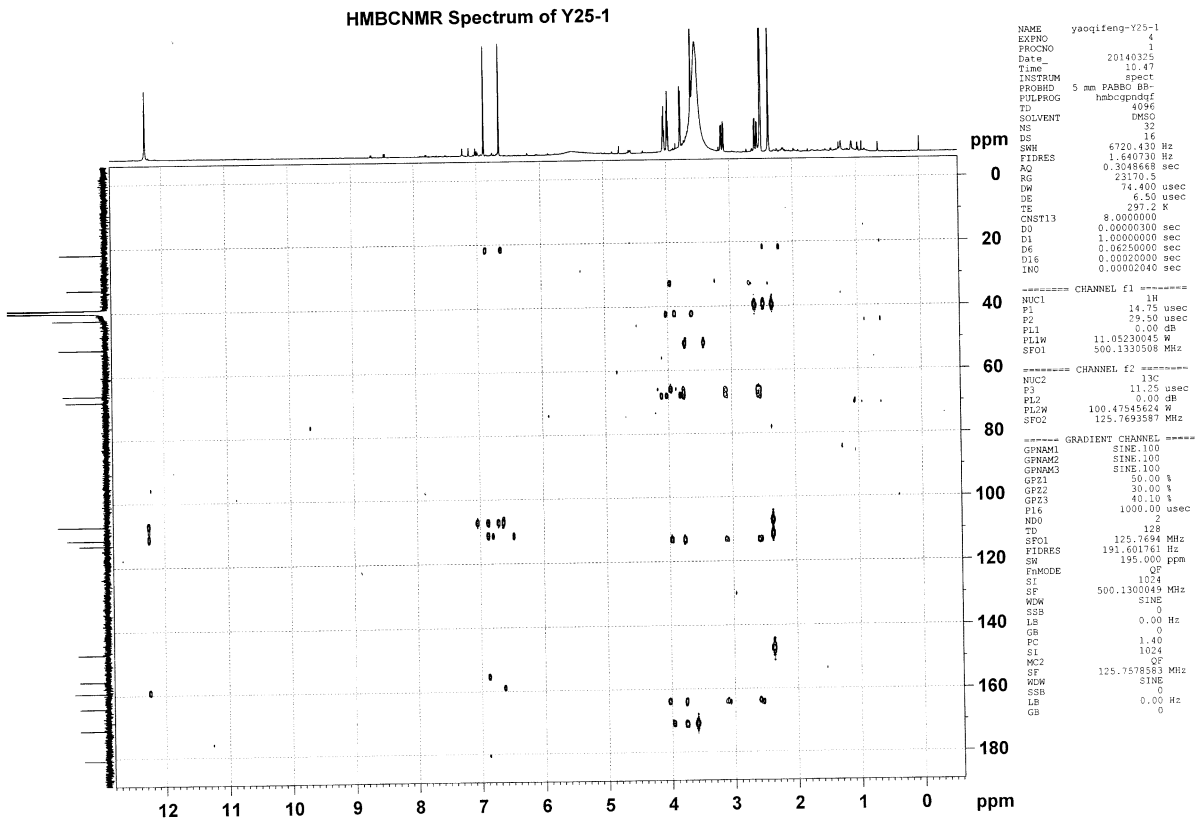


Figure S22. NOESY spectrum of 4.

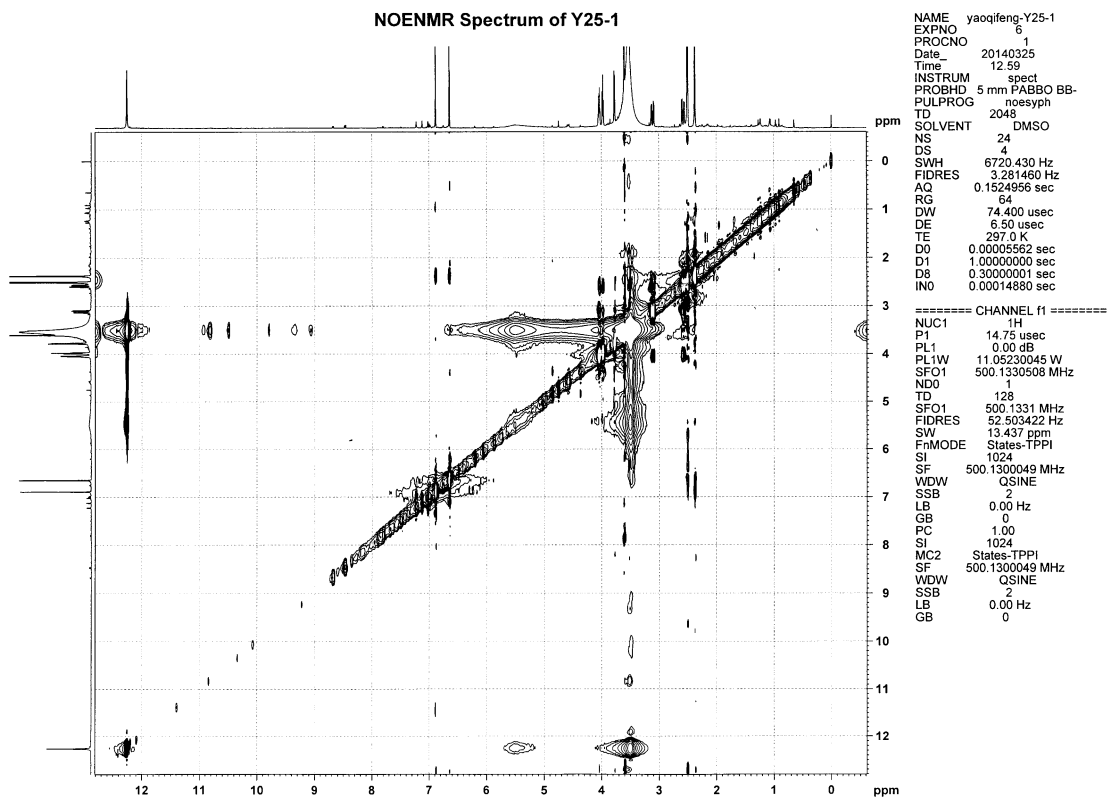


Figure S23. HRESIMS spectrum of 4.

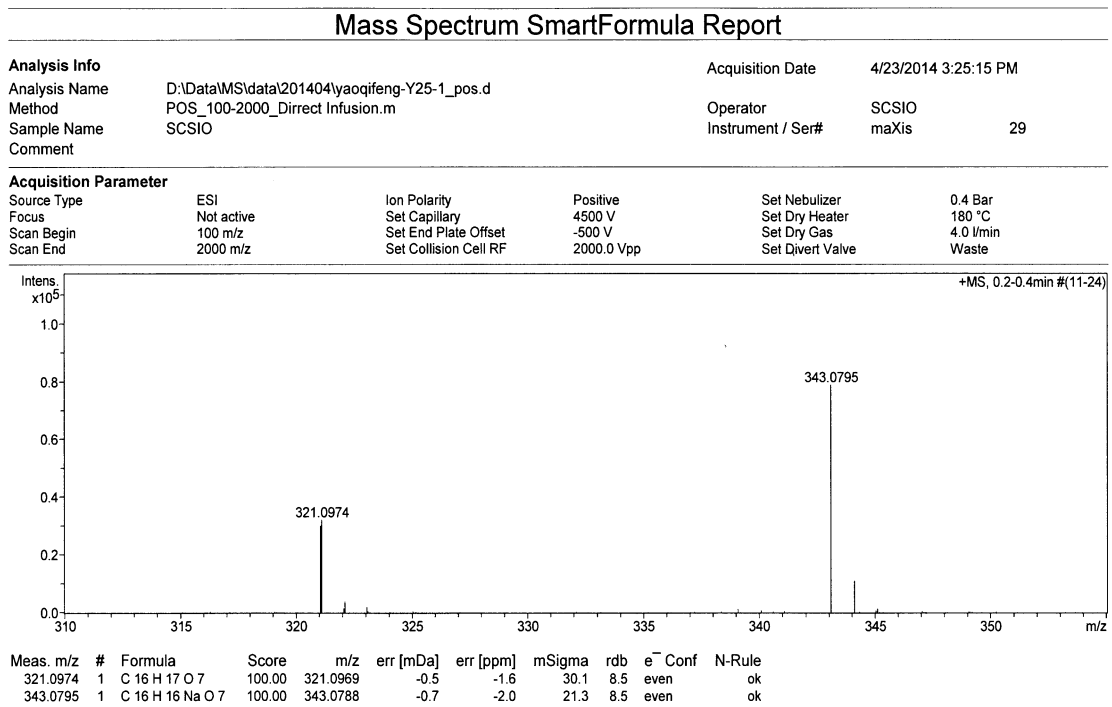


Figure S24. IR spectrum of 4.

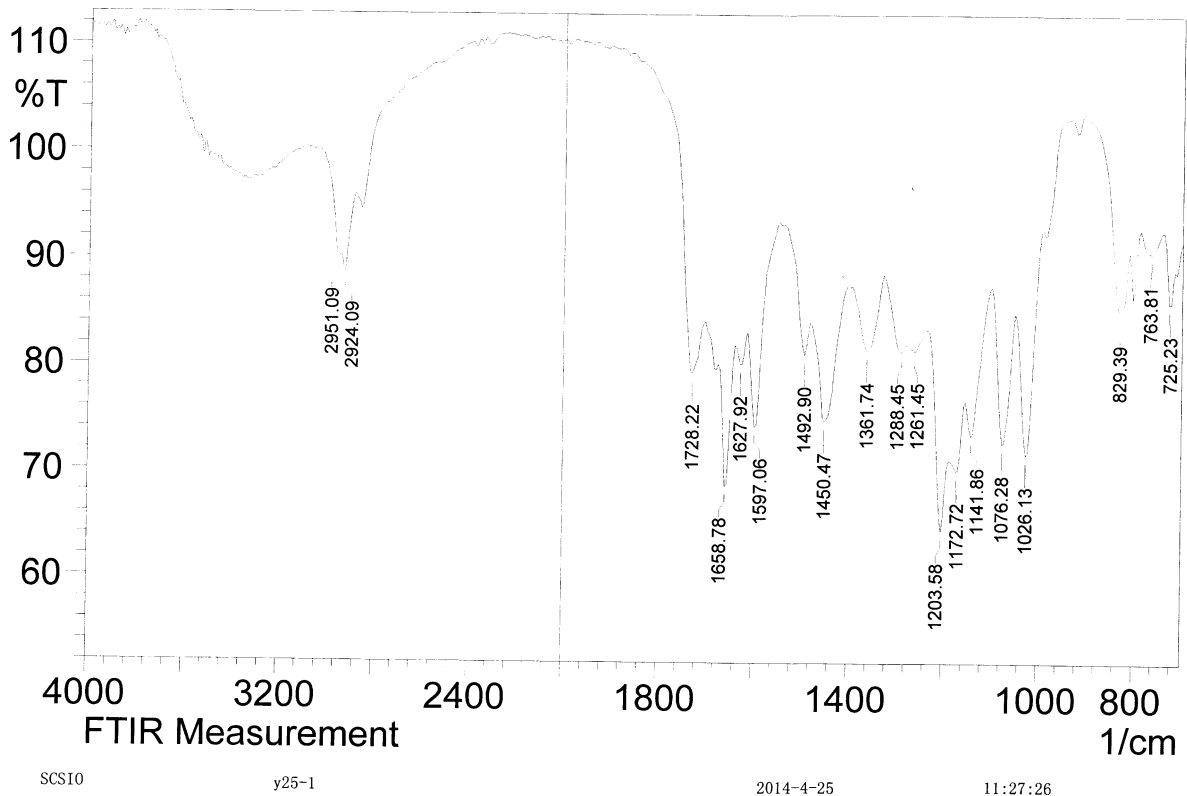


Figure S25. ¹H NMR spectrum of 5.

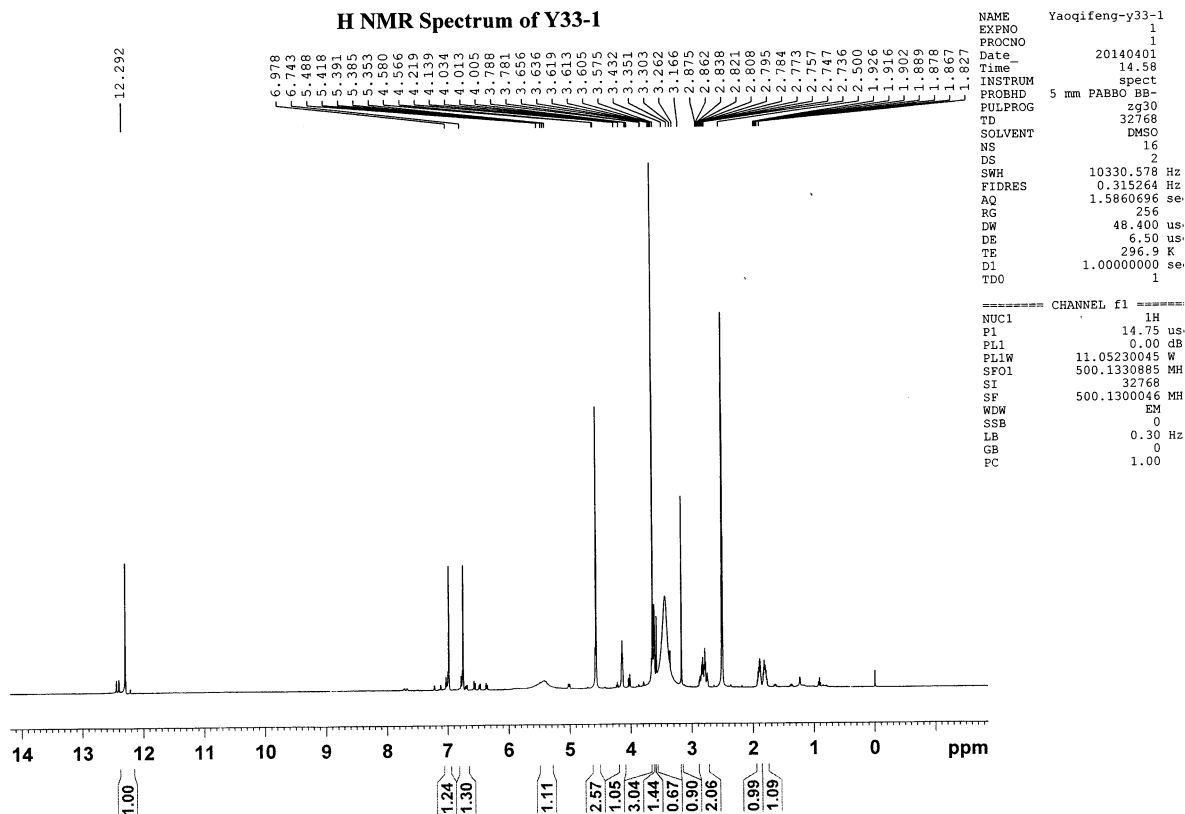


Figure S26. ¹³C NMR spectrum of 5.

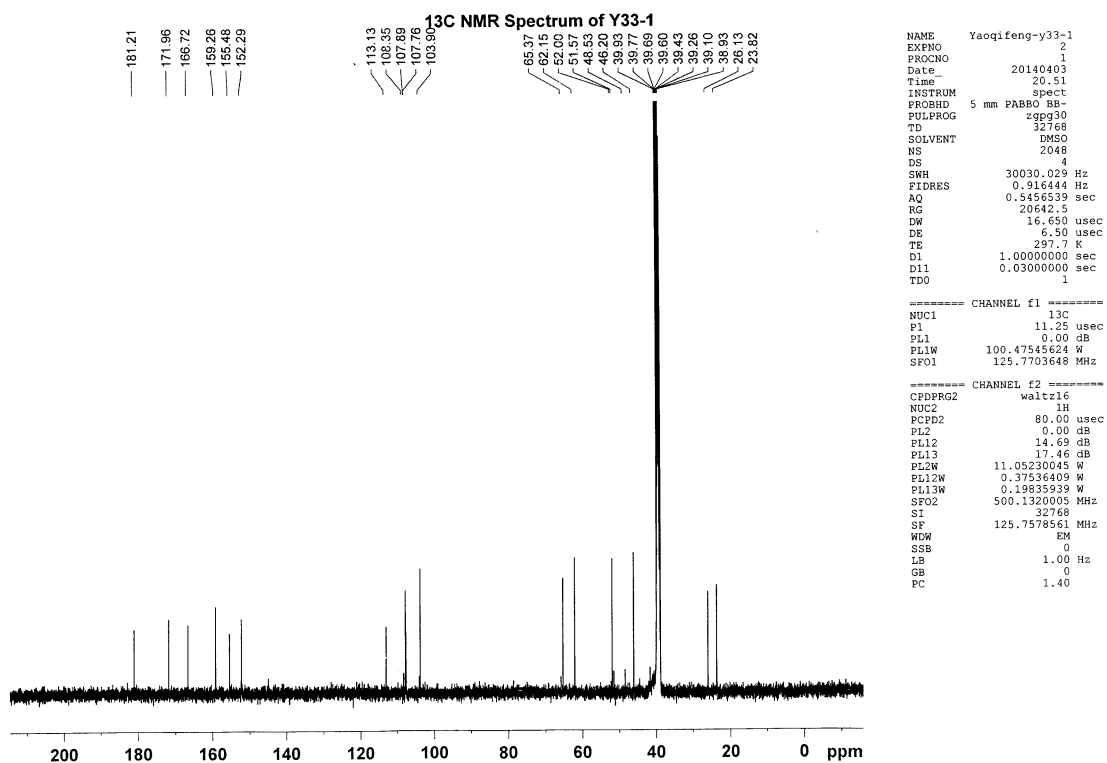


Figure S27. HMBC spectrum of 5.

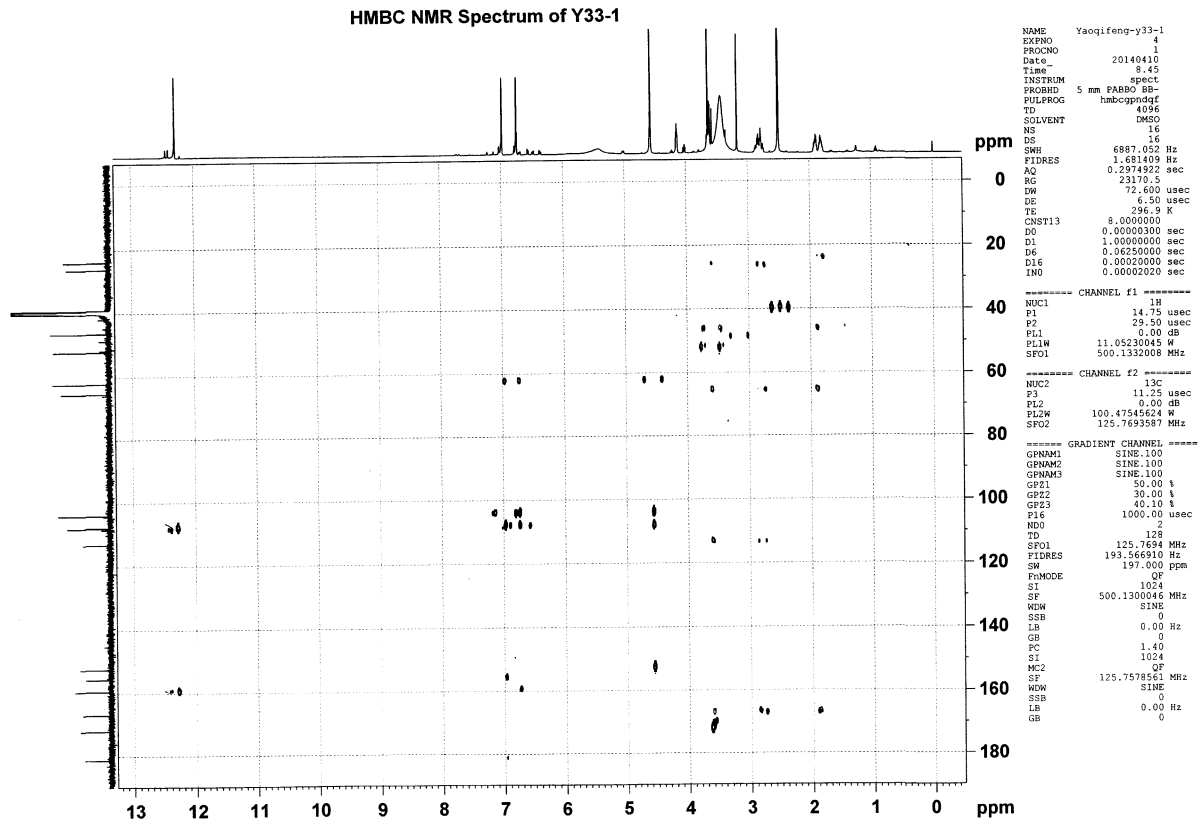


Figure S28. NOESY spectrum of 5.

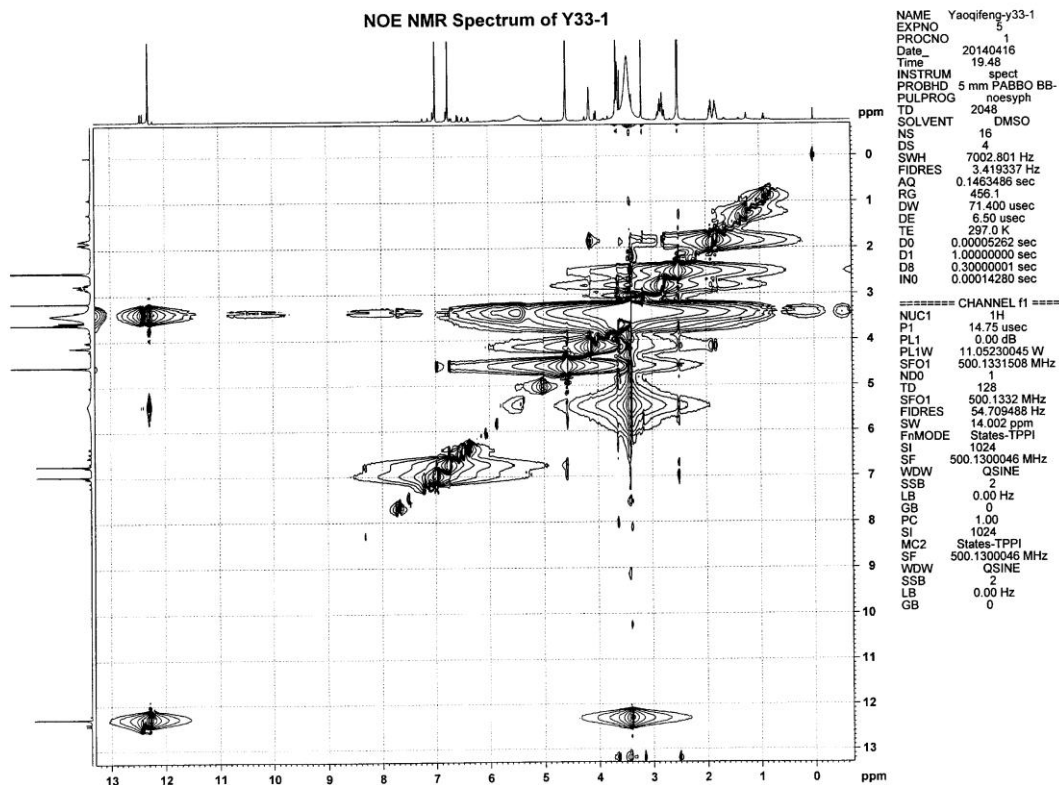


Figure S29. HRESIMS spectrum of 5.

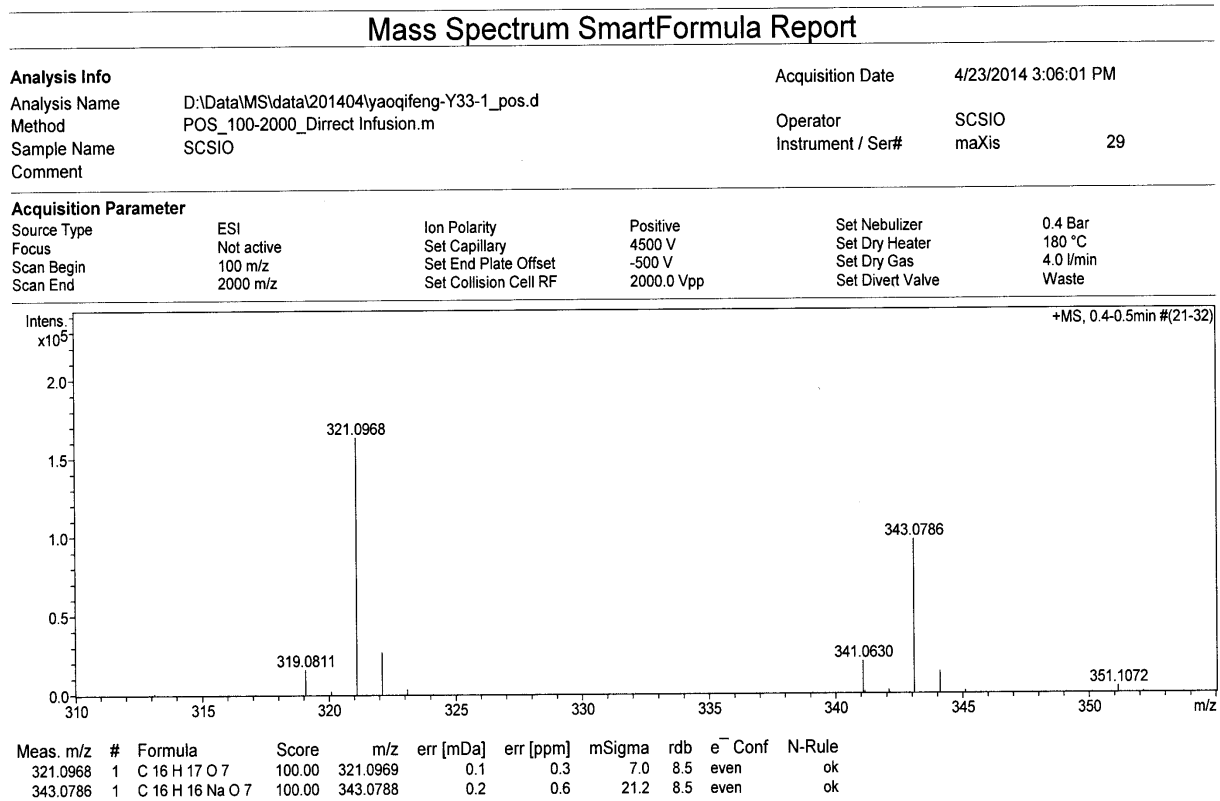


Figure S30. IR spectrum of 5.

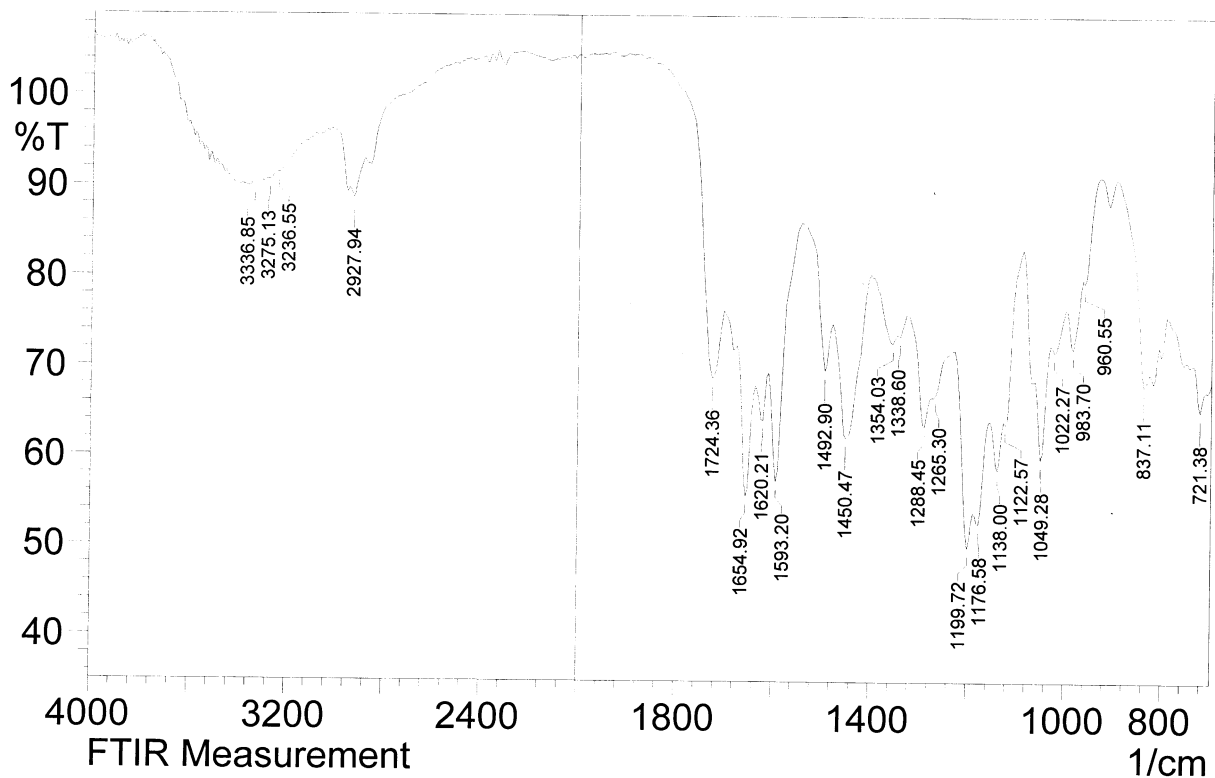


Figure S31. ¹H NMR spectrum of 6.

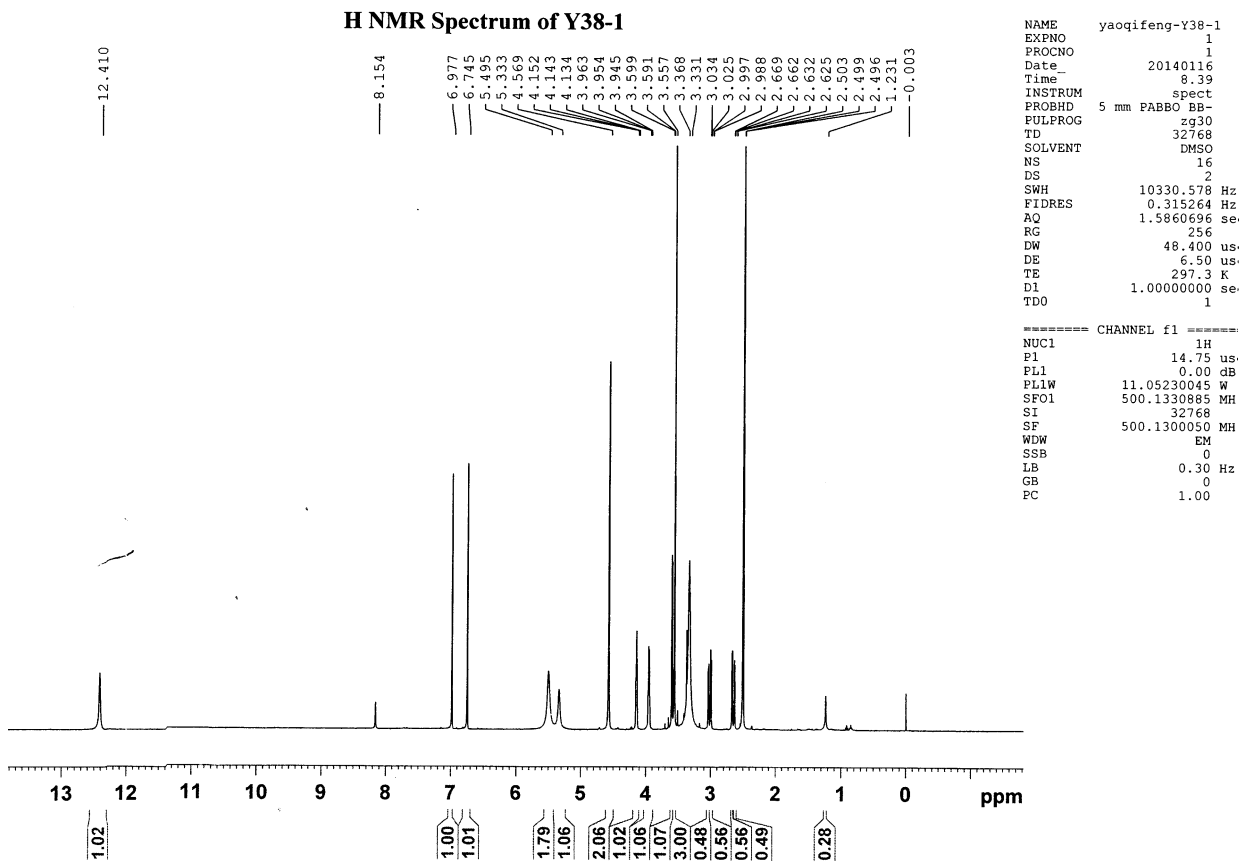


Figure S32. ¹³C NMR spectrum of 6.

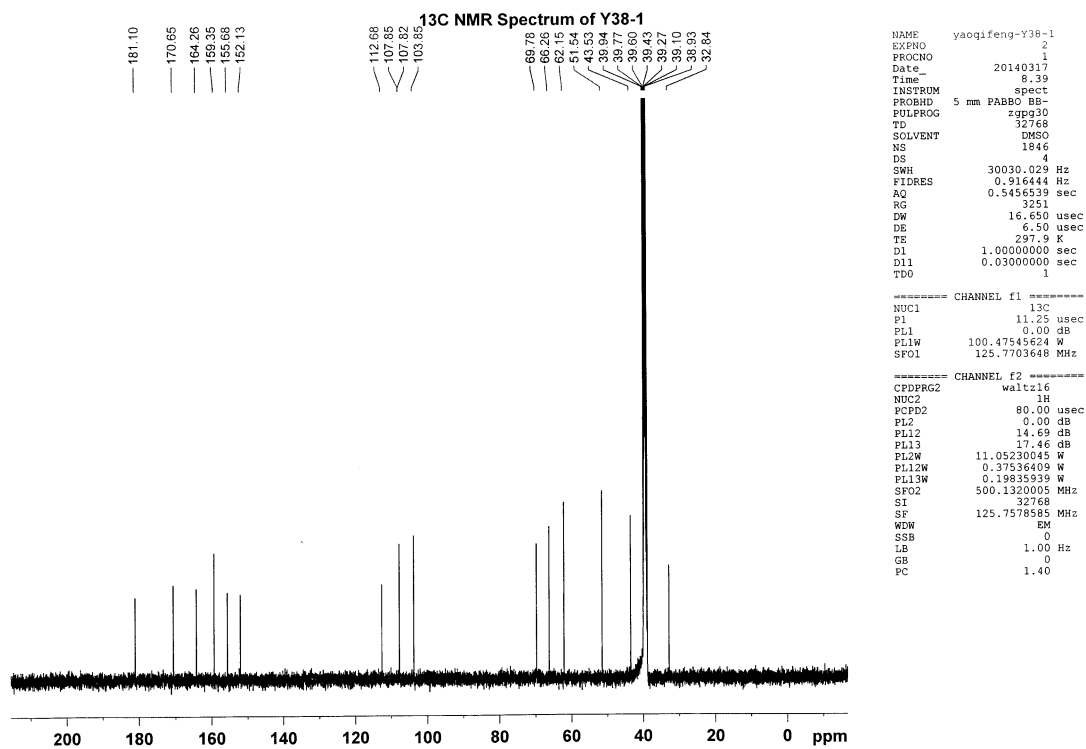


Figure S33. HSQC spectrum of 6.

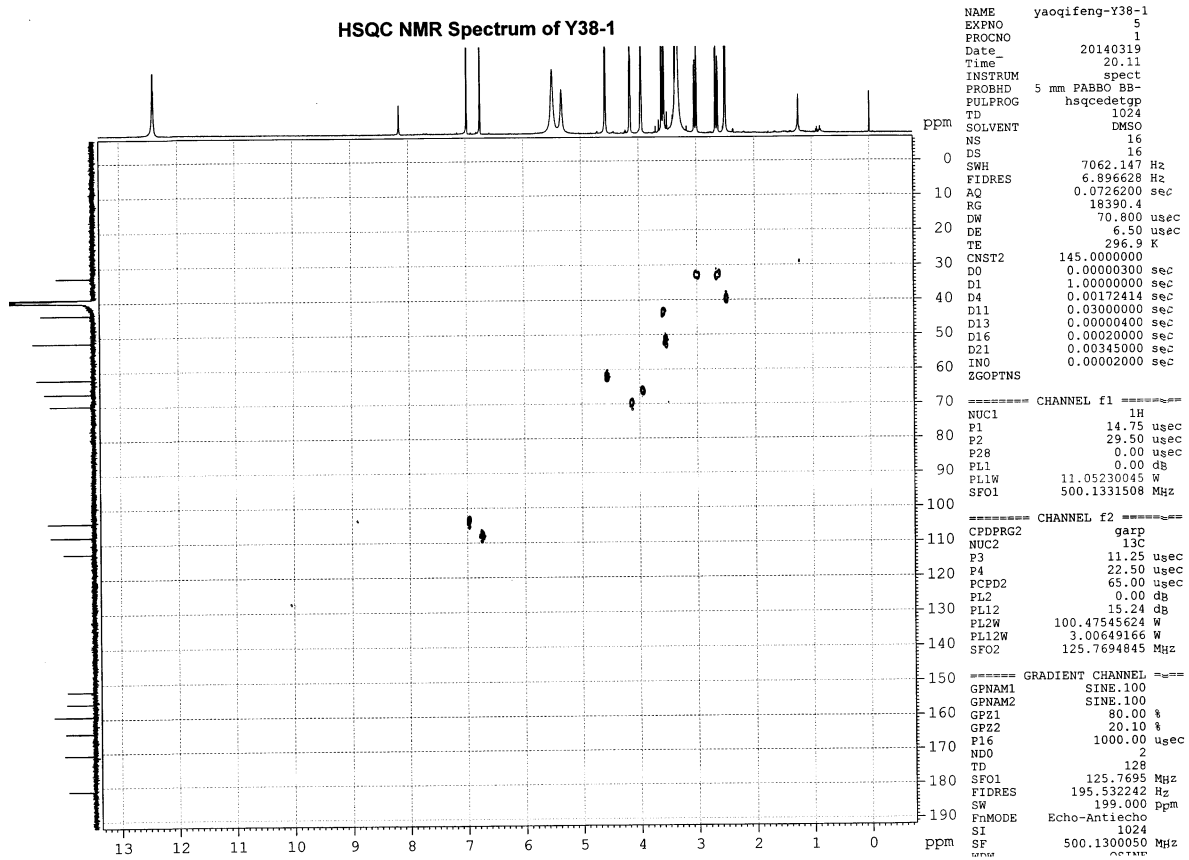


Figure S34. HMBC spectrum of 6.

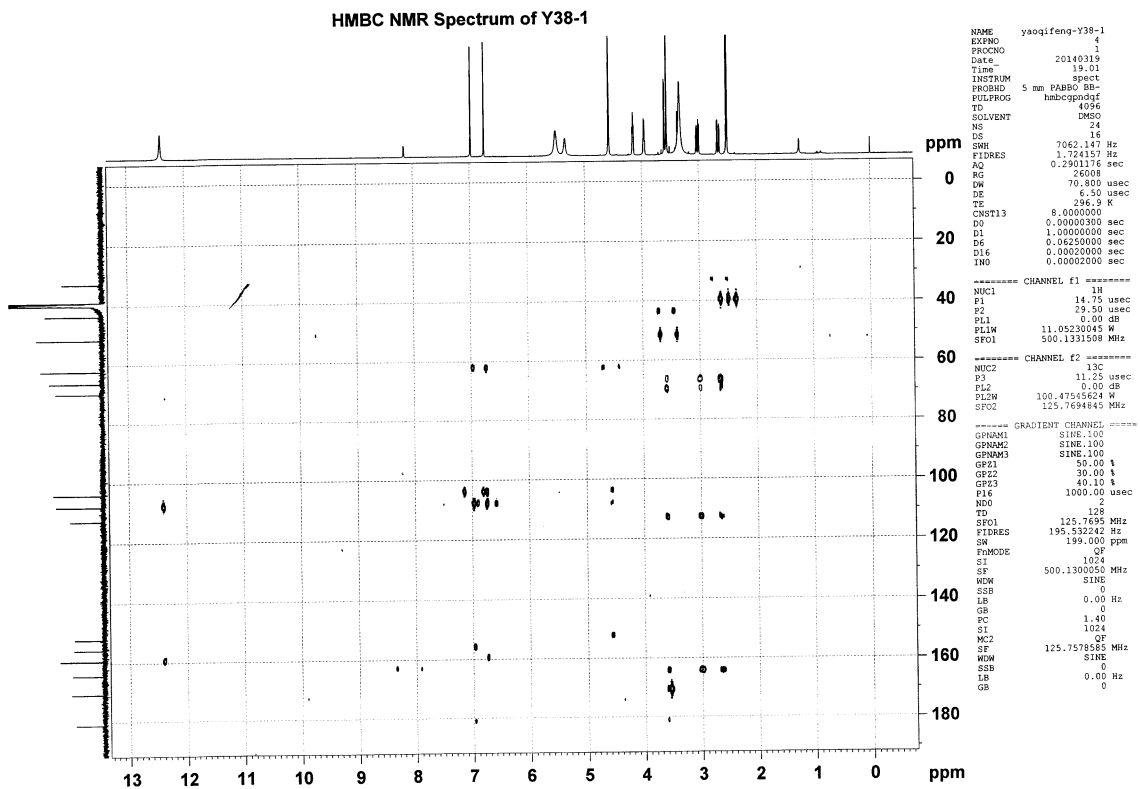


Figure S35. H-H COSY spectrum of 6.

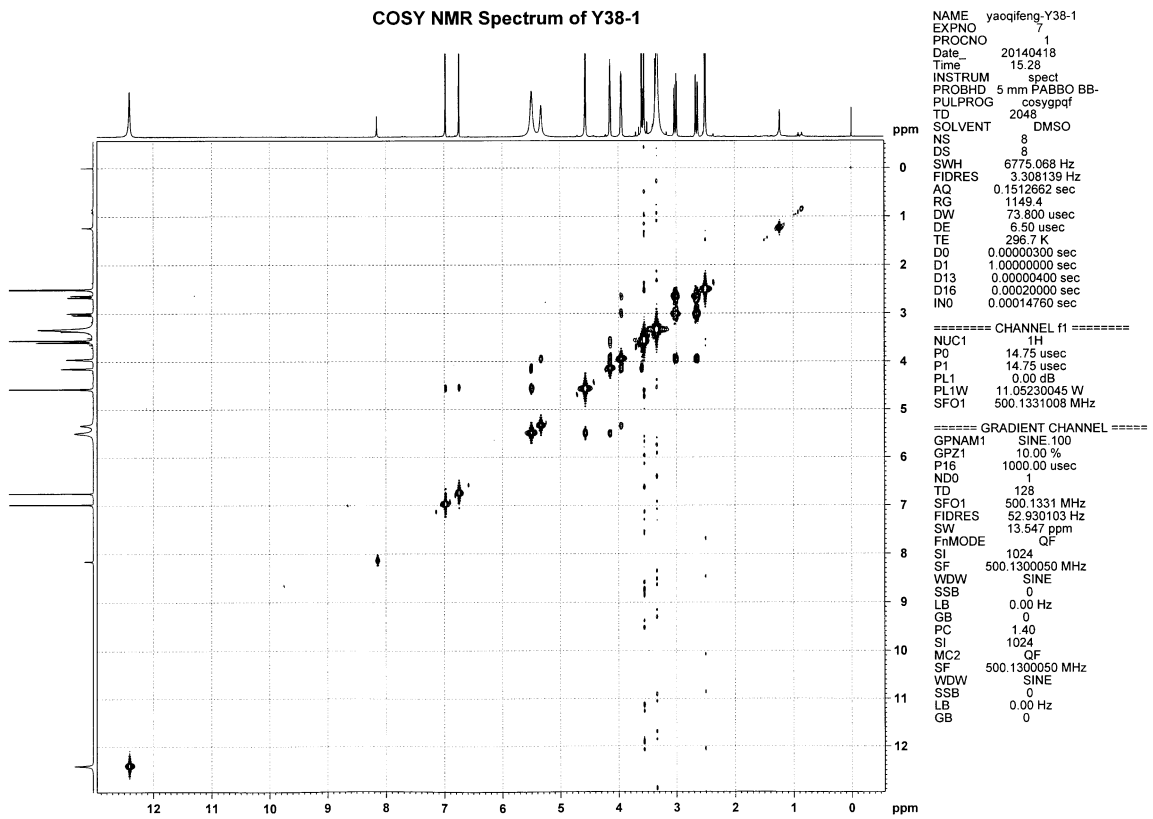


Figure S36. NOESY spectrum of 6.

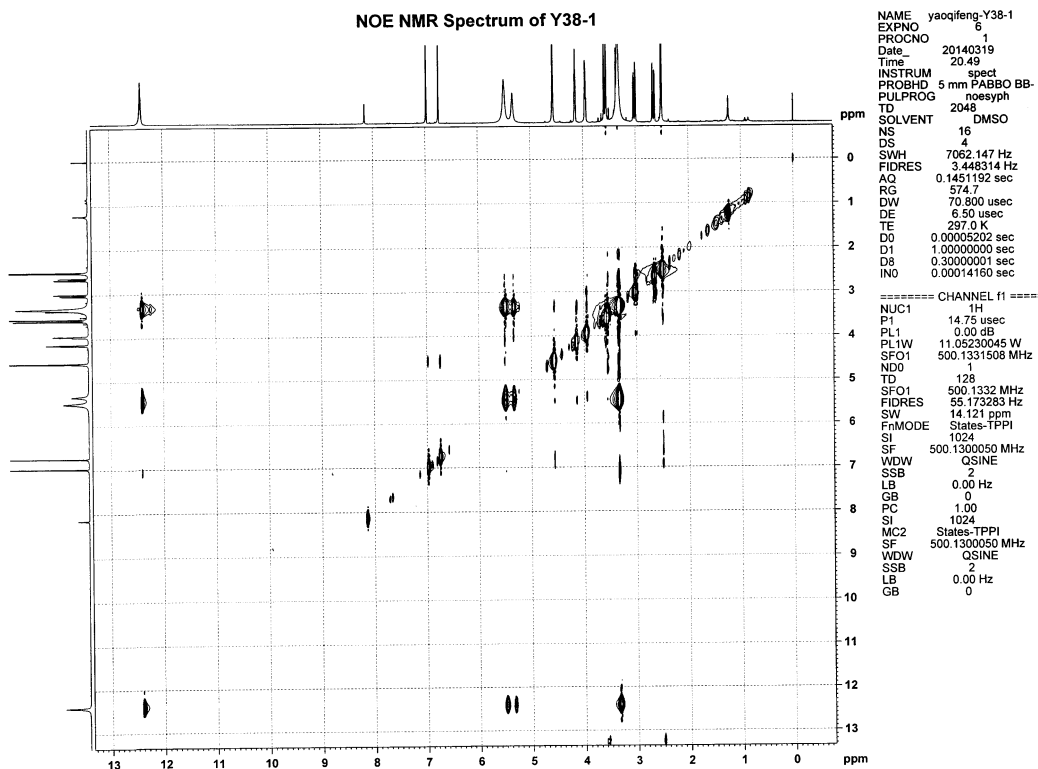


Figure S37. HRESIMS spectrum of 6.

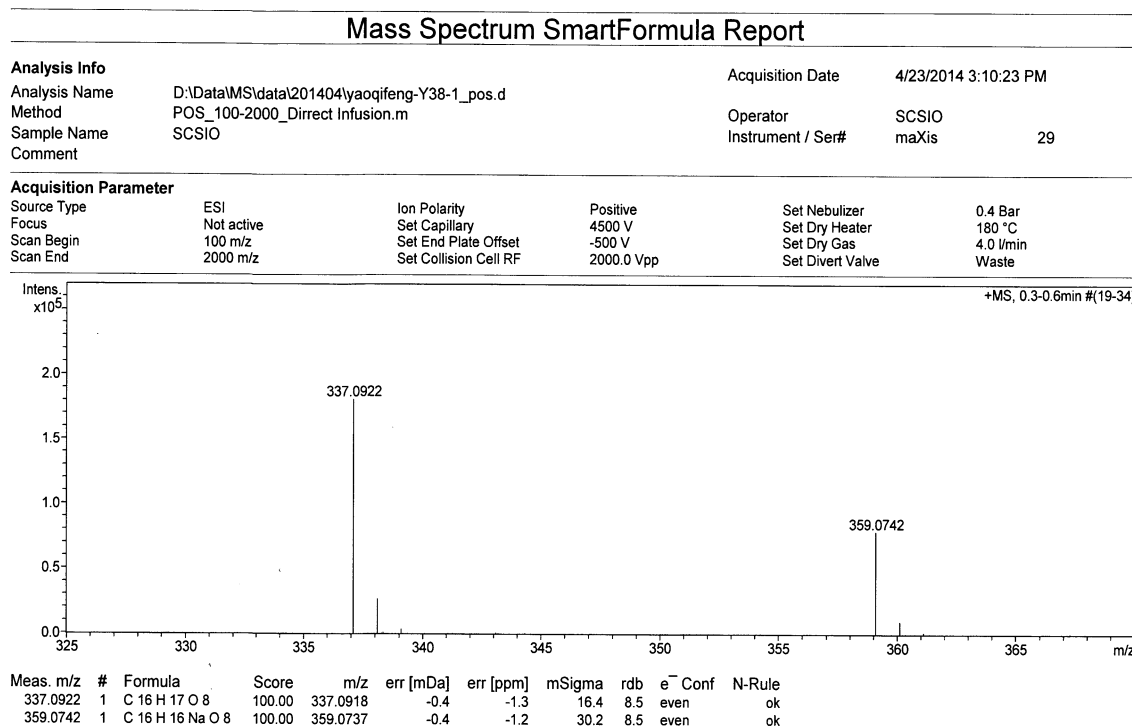


Figure S38. HRESIMS spectrum of 6.

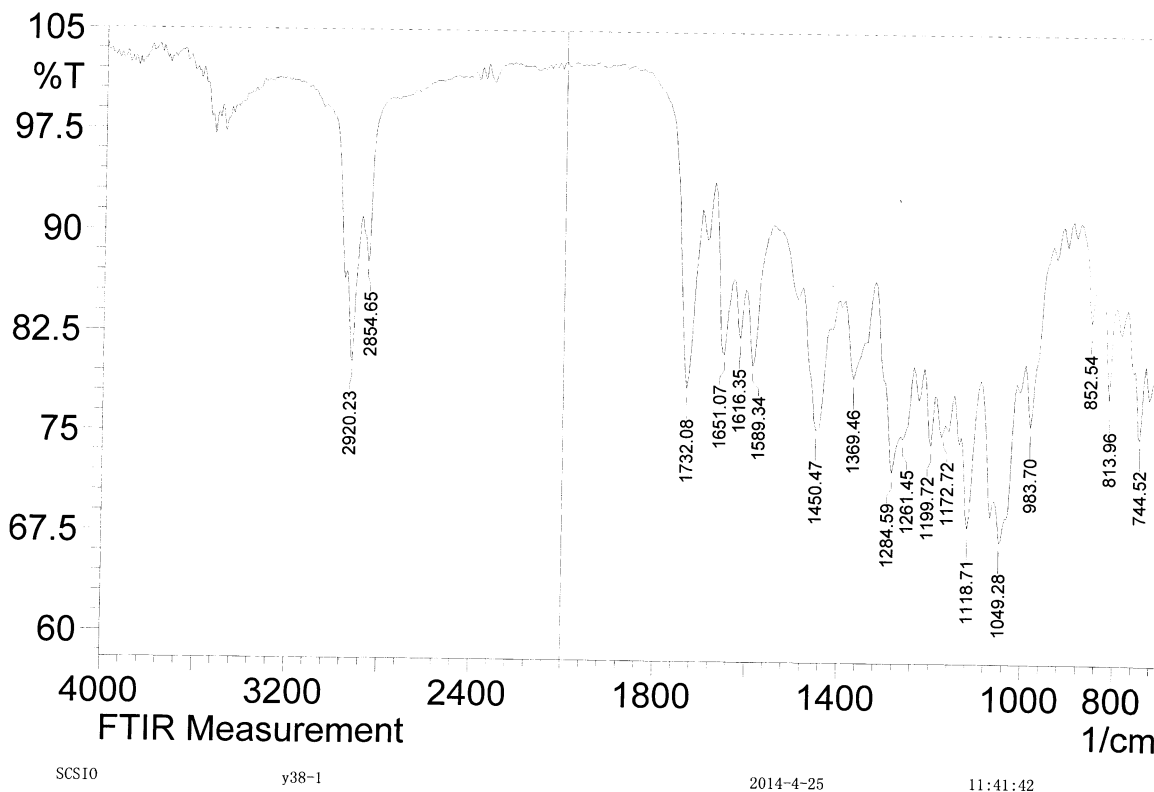


Figure S41. HSQC spectrum of 7.

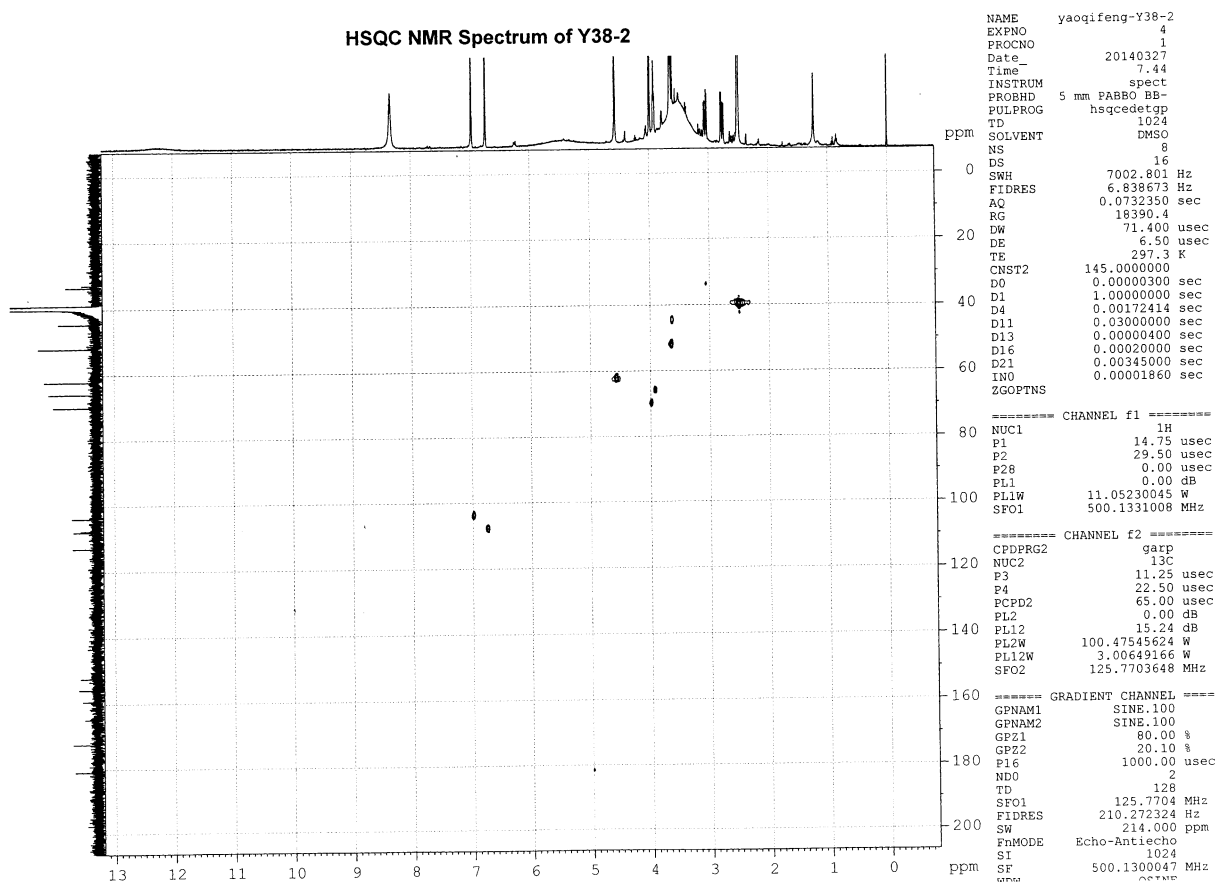


Figure S42. HMBC spectrum of 7.

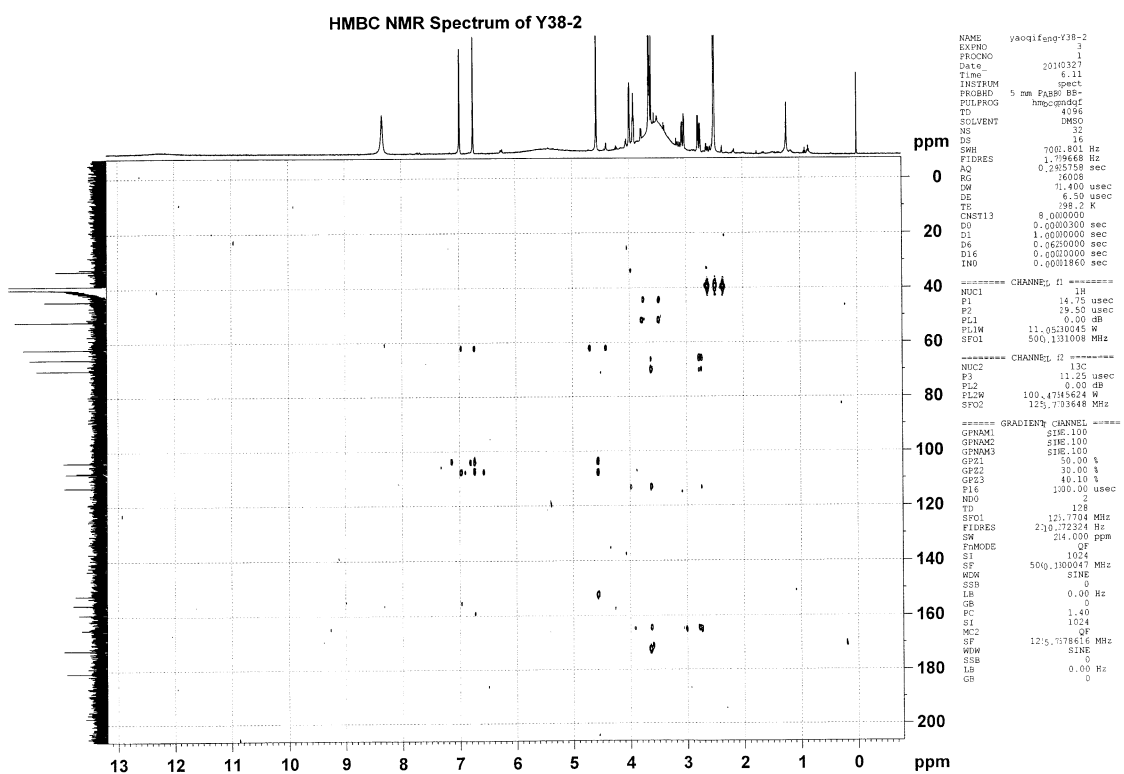


Figure S43. NOESY spectrum of 7.

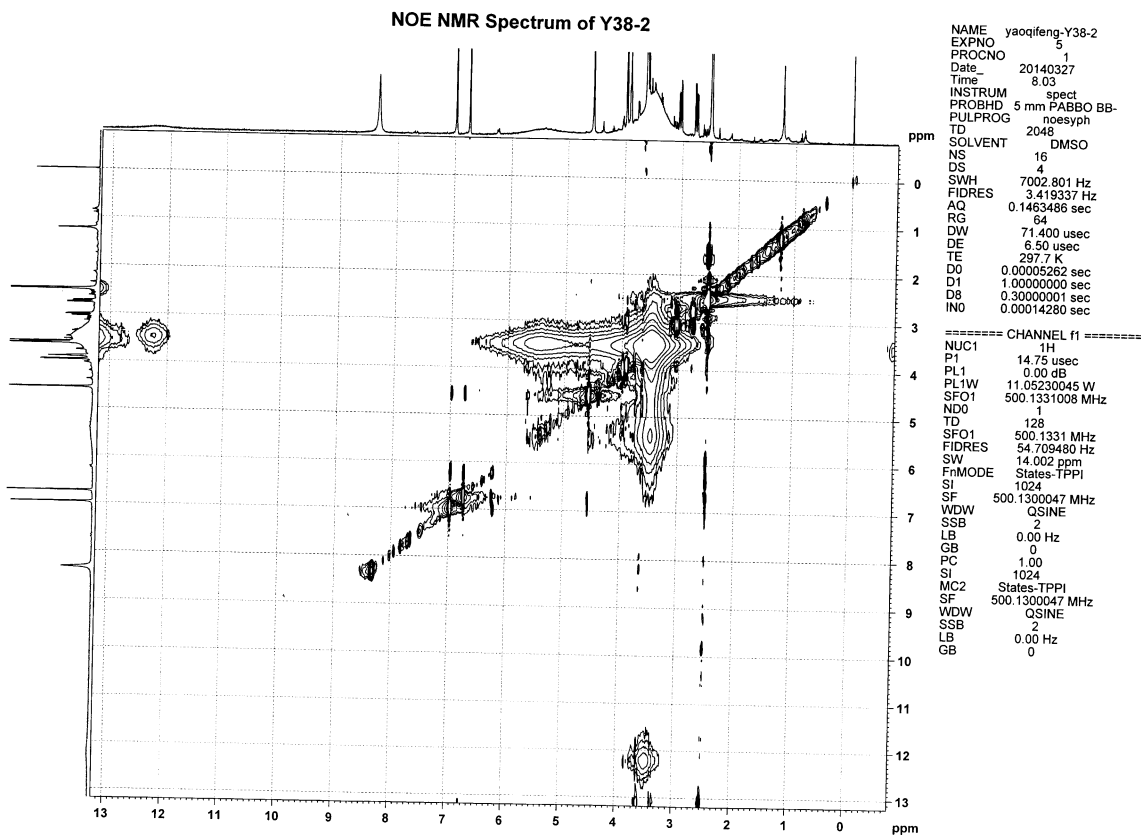


Figure S44. HRESIMS spectrum of 7.

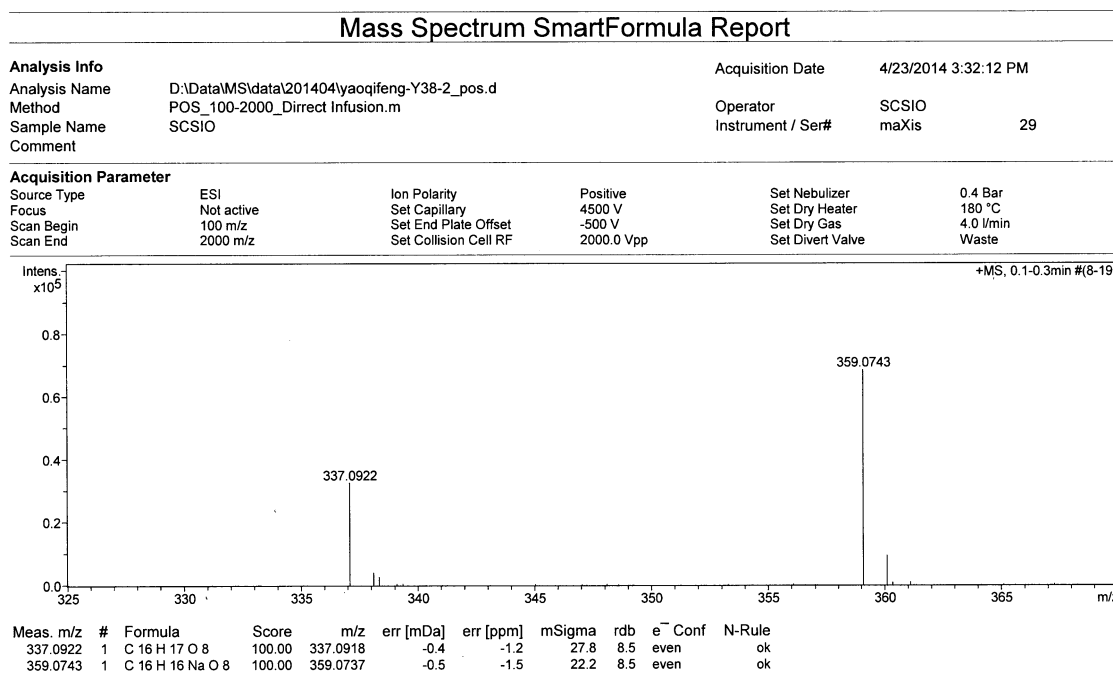


Figure S45. IR spectrum of 7.

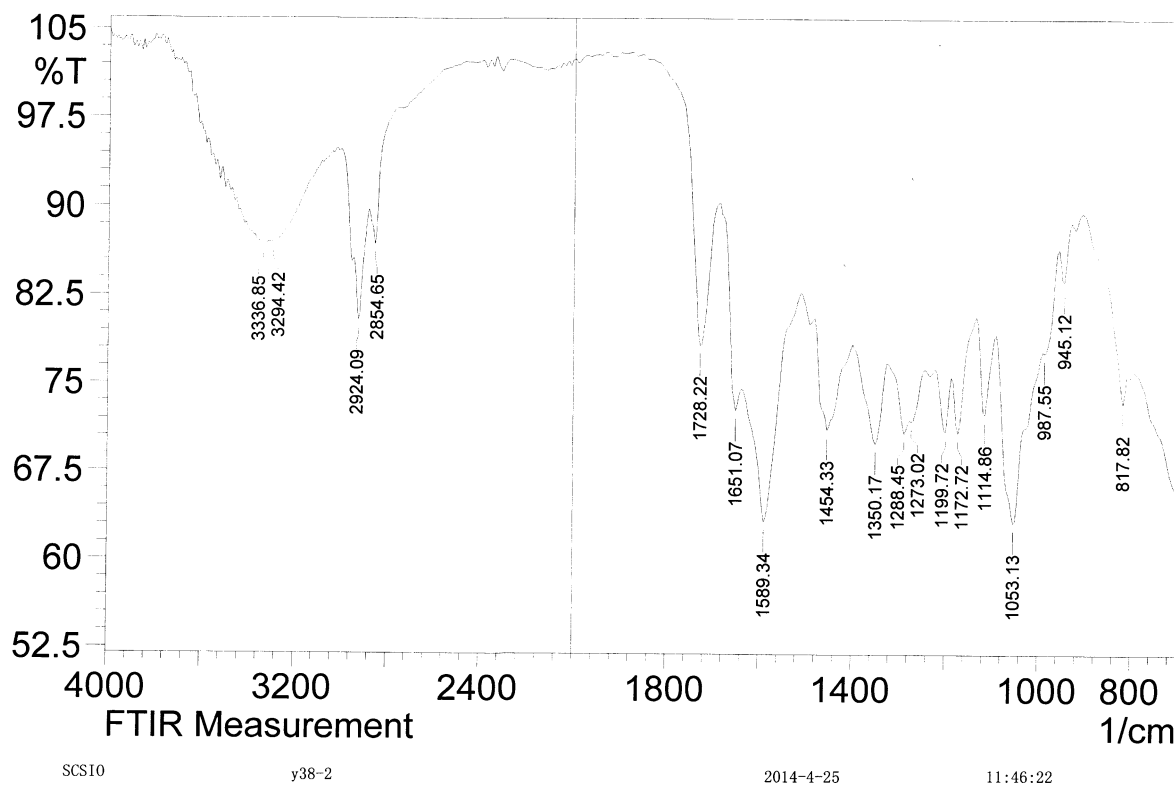


Figure S46. ¹H NMR spectrum of 8.

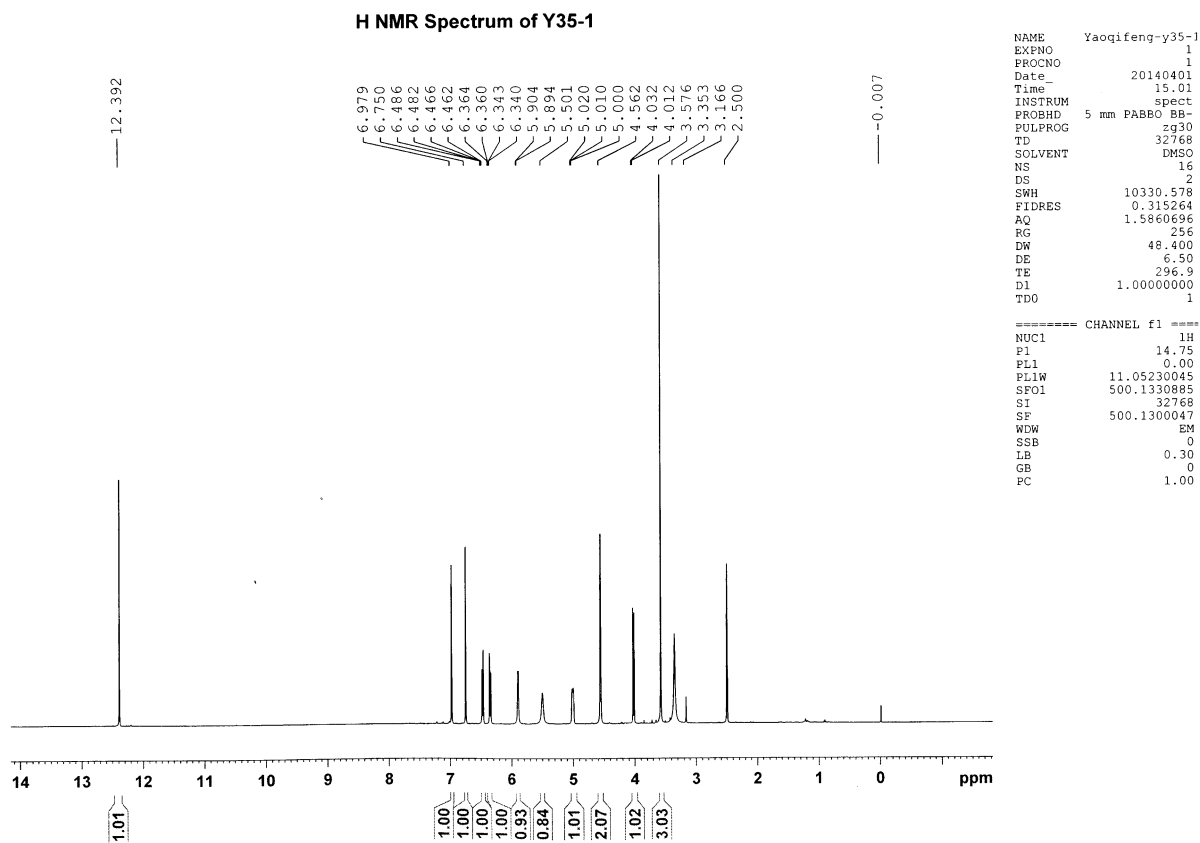


Figure S47. ¹³C NMR spectrum of 8.

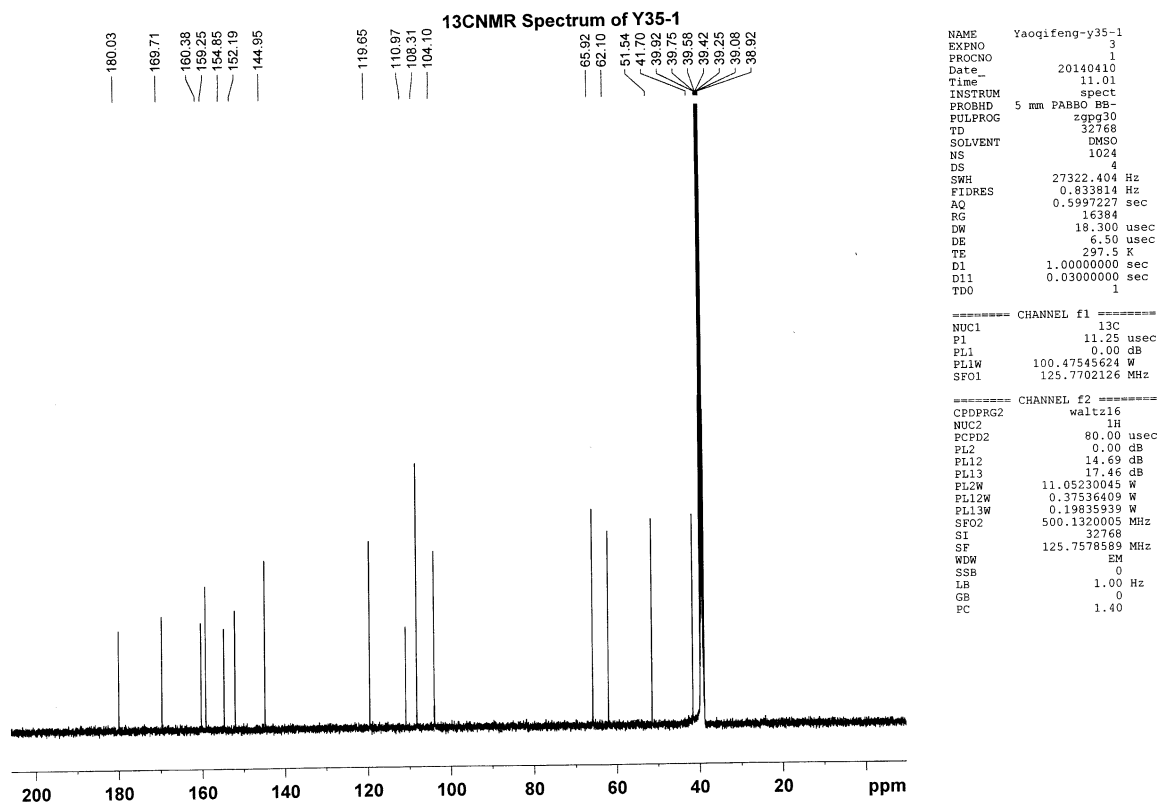


Figure S48. HMBC spectrum of 8.

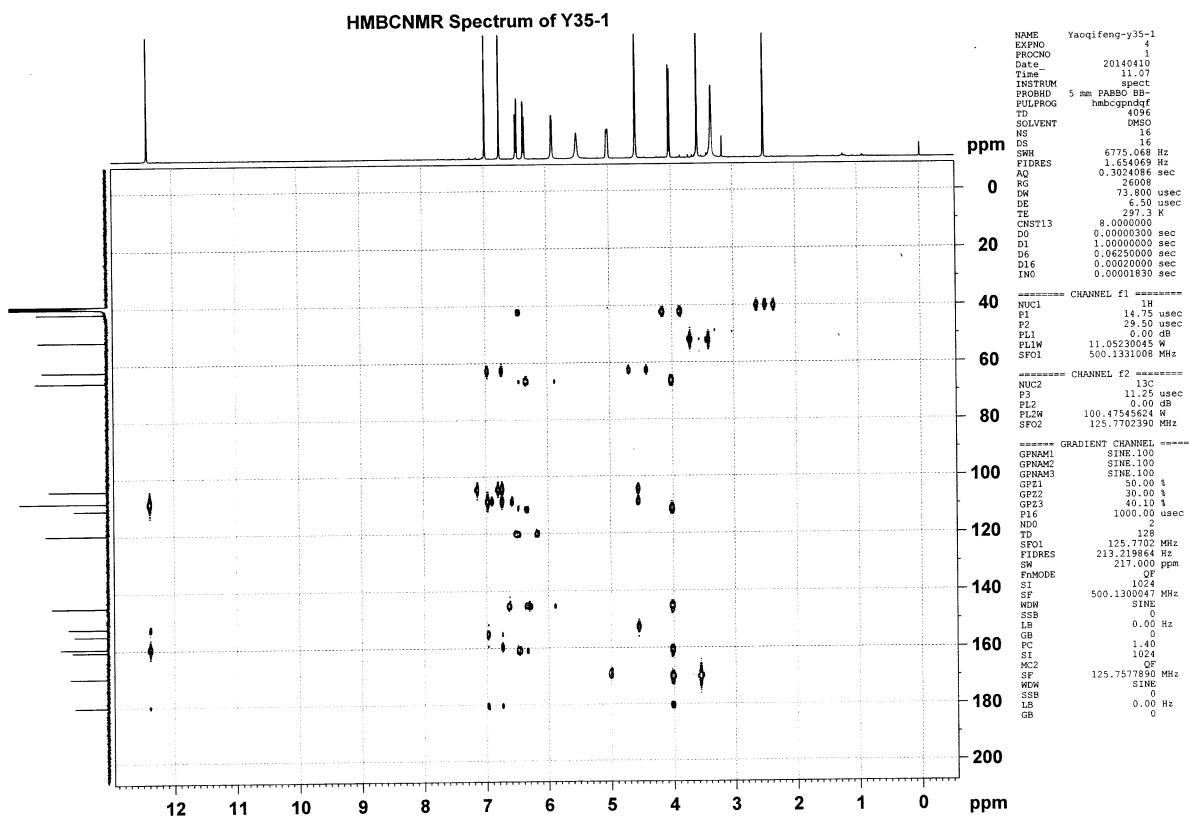


Figure S49. NOESY spectrum of 8.

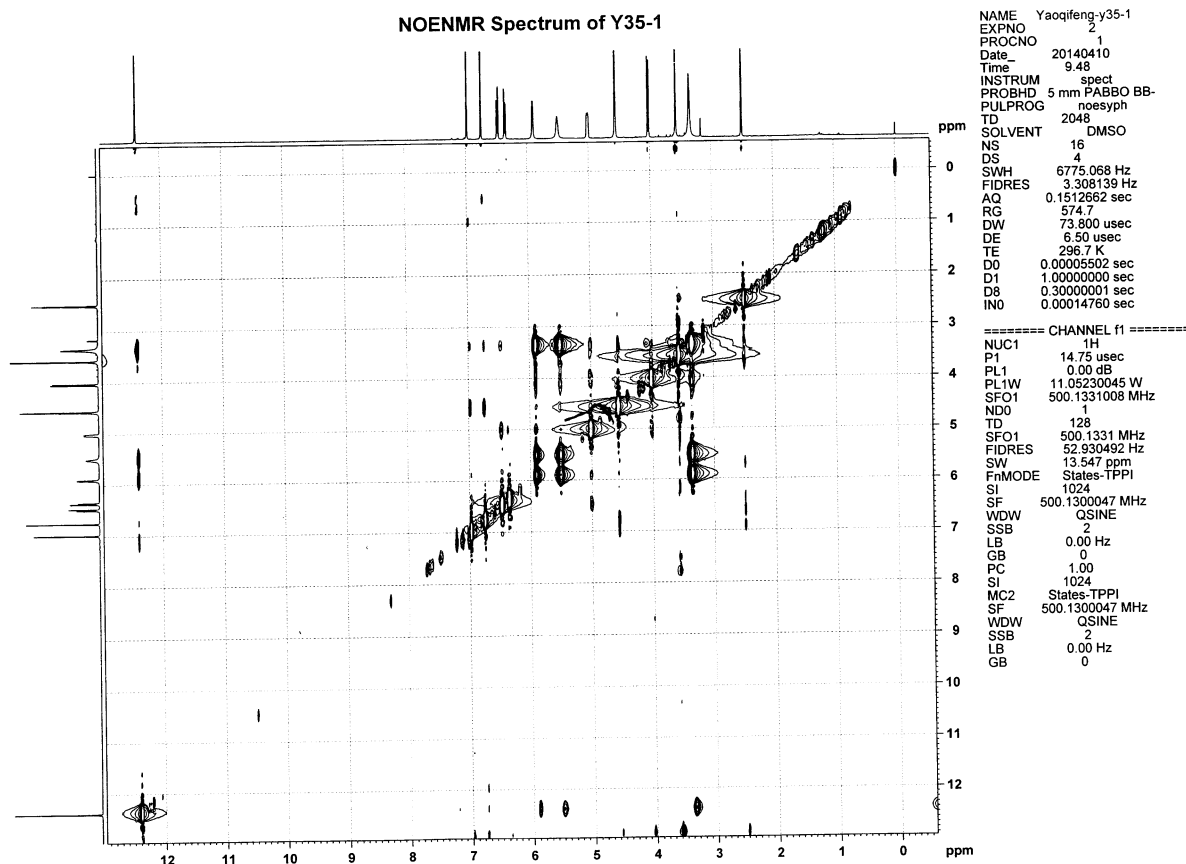


Figure S50. HRESIMS spectrum of 8.

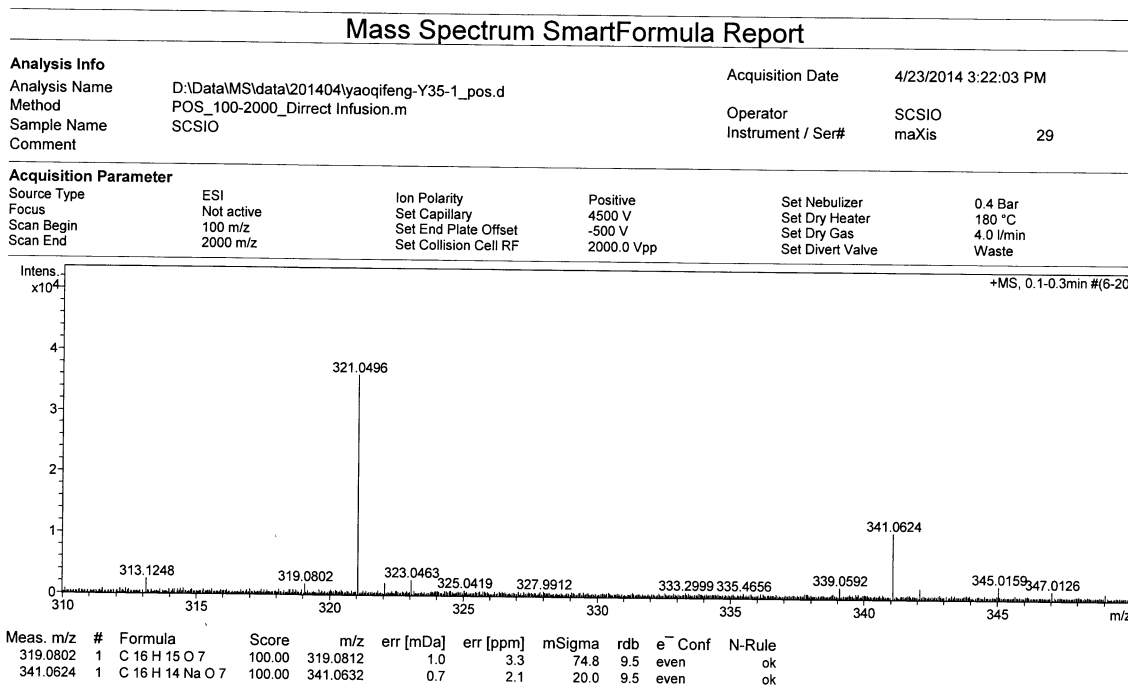


Figure S51. IR spectrum of 8.

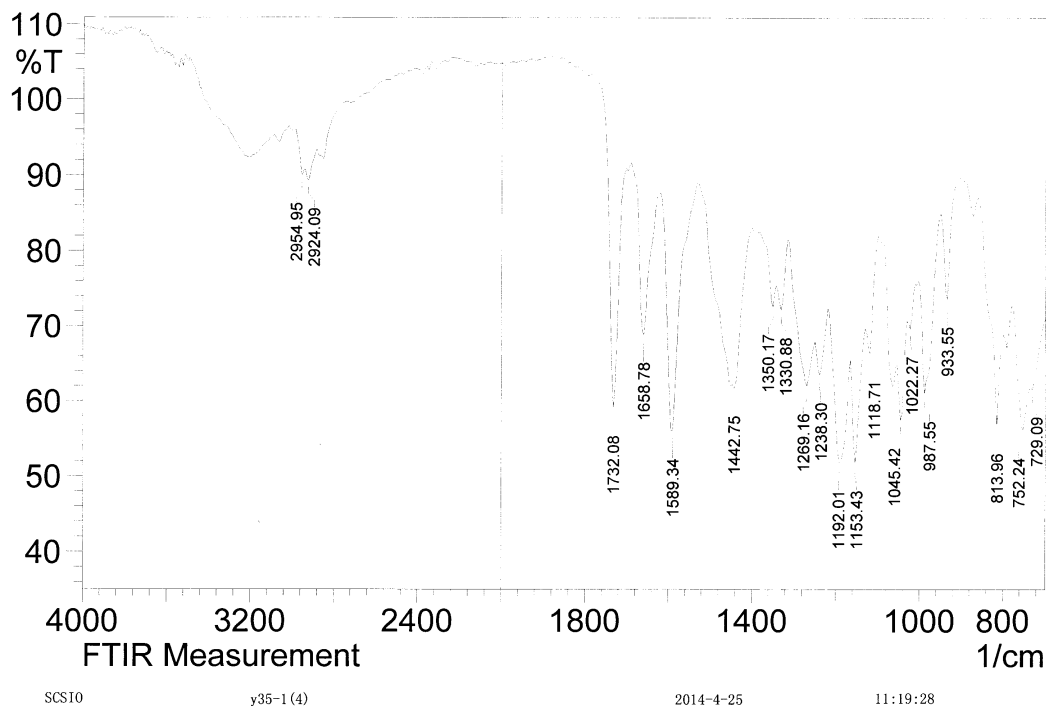


Figure S52. ¹H NMR spectrum of 9.

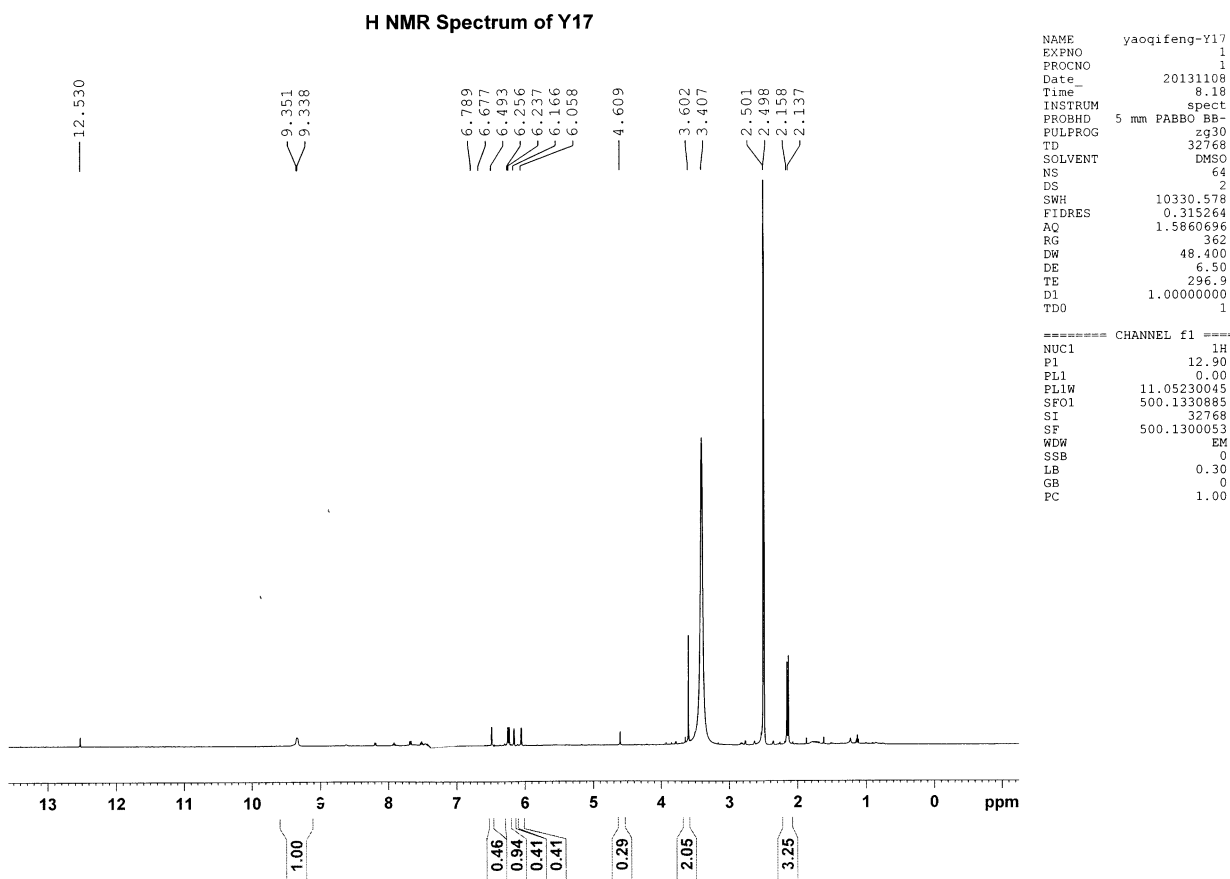


Figure S53. ¹³C NMR spectrum of 9.

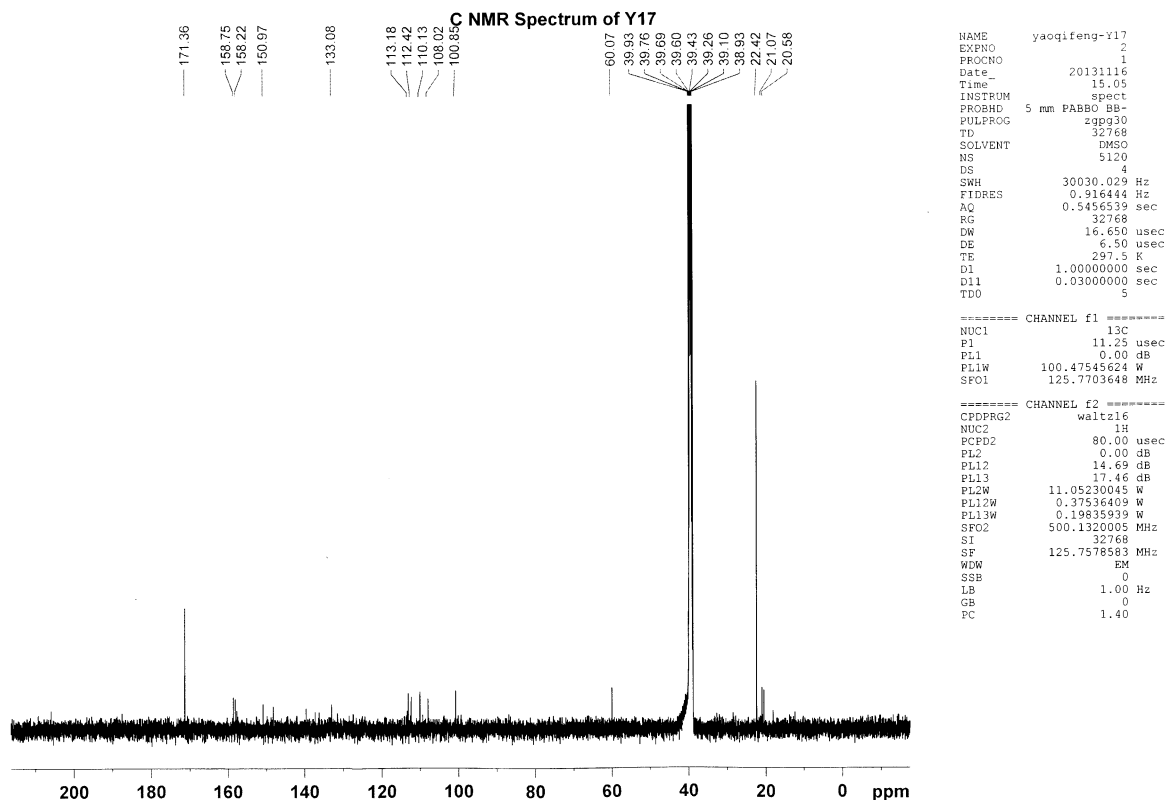


Figure S54. HMBC spectrum of 9.

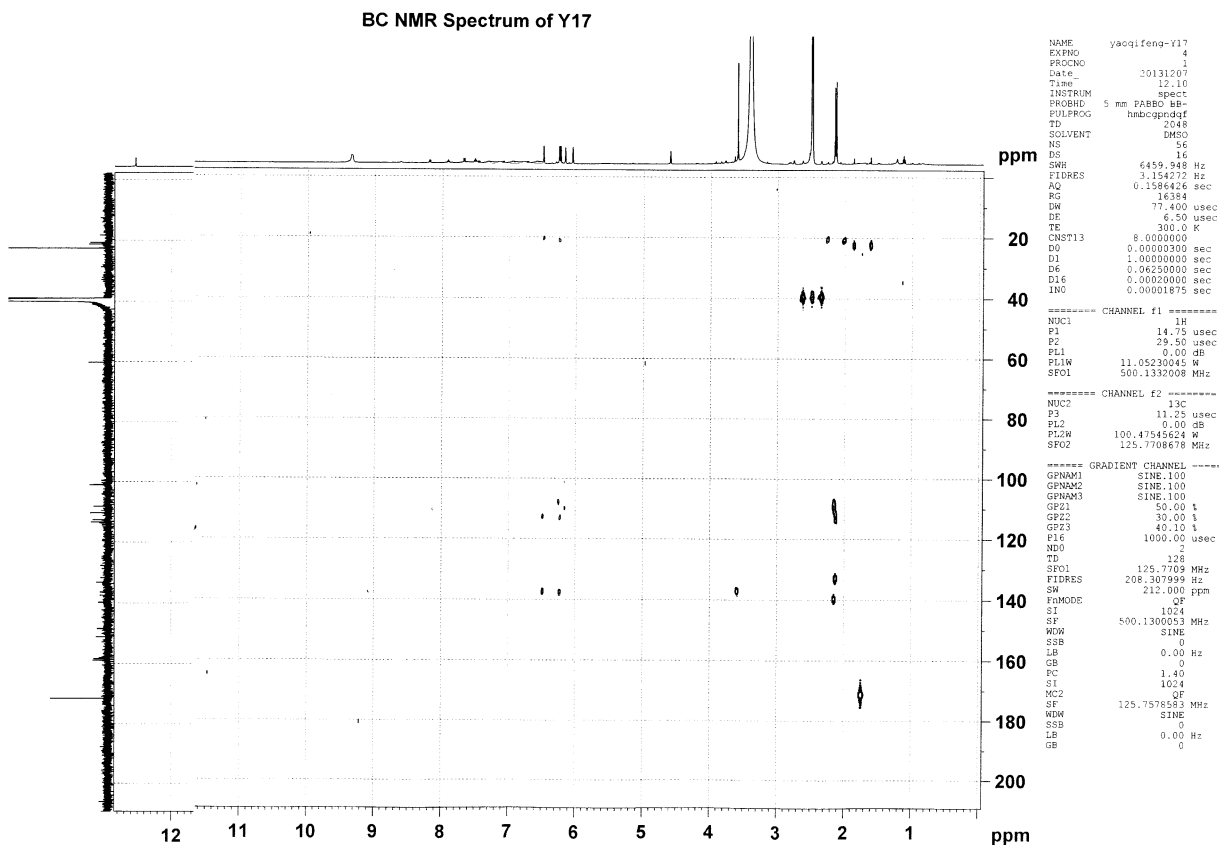


Figure S55. HRESIMS spectrum of 9.

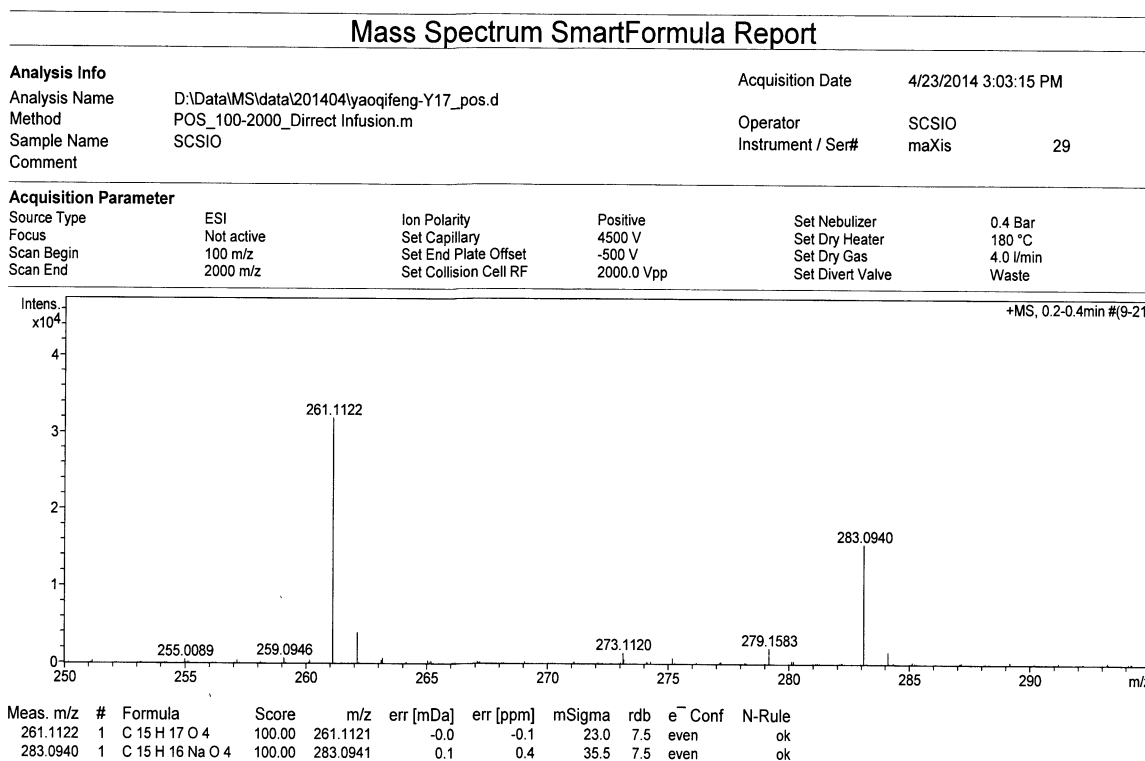


Figure S56. IR spectrum of 9.

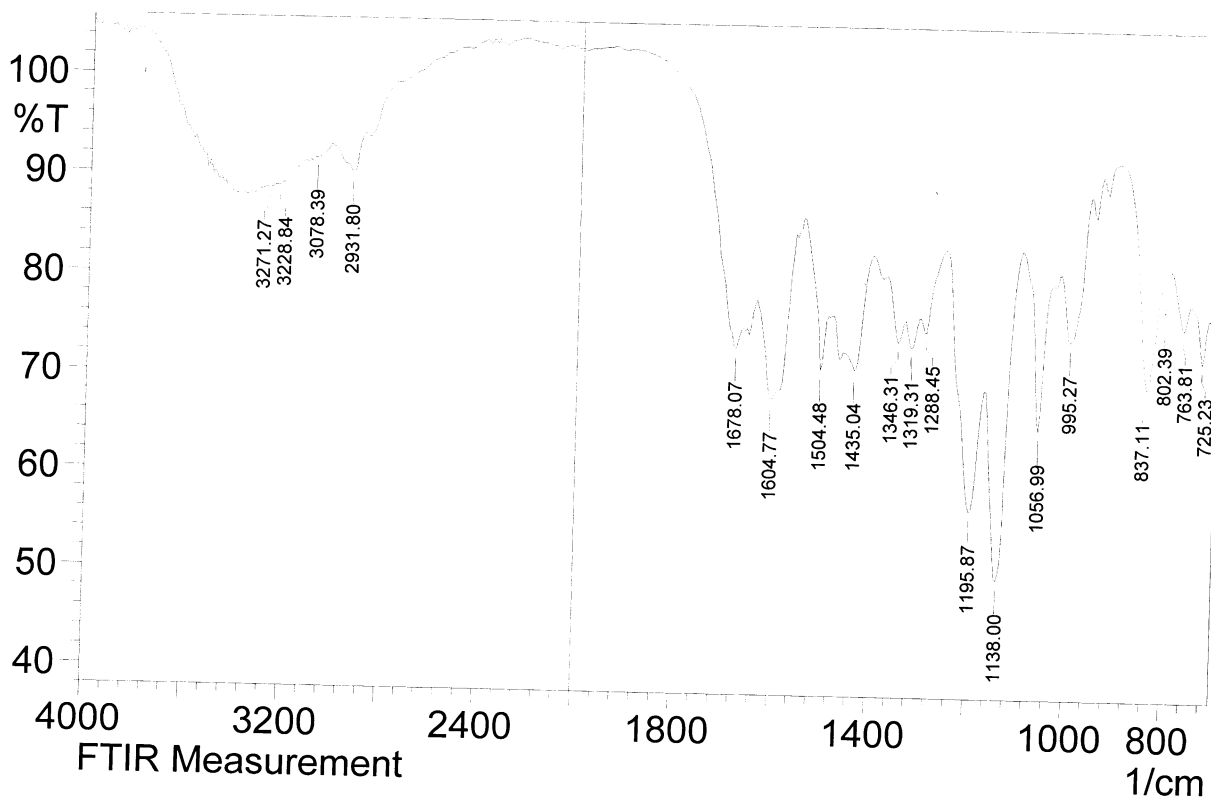


Figure S57. ¹H NMR spectrum of 10.

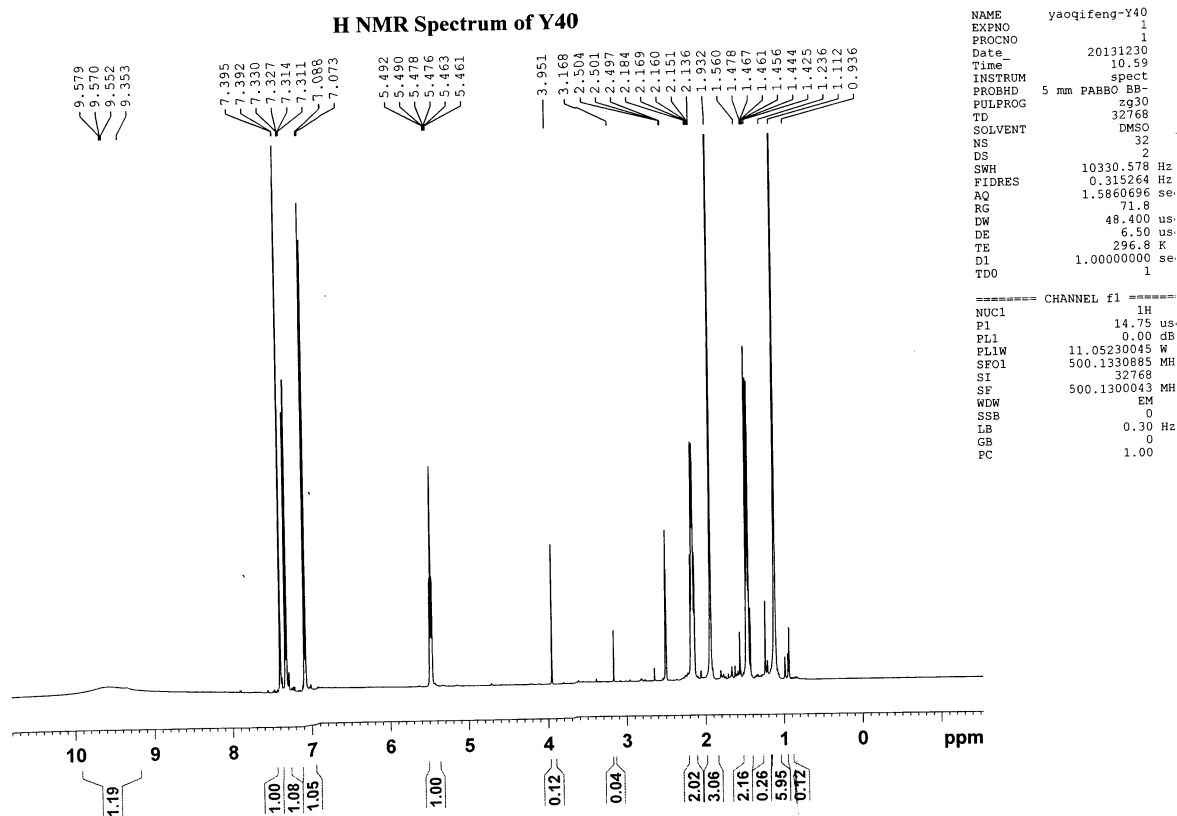


Figure S58. ¹³C NMR spectrum of 10.

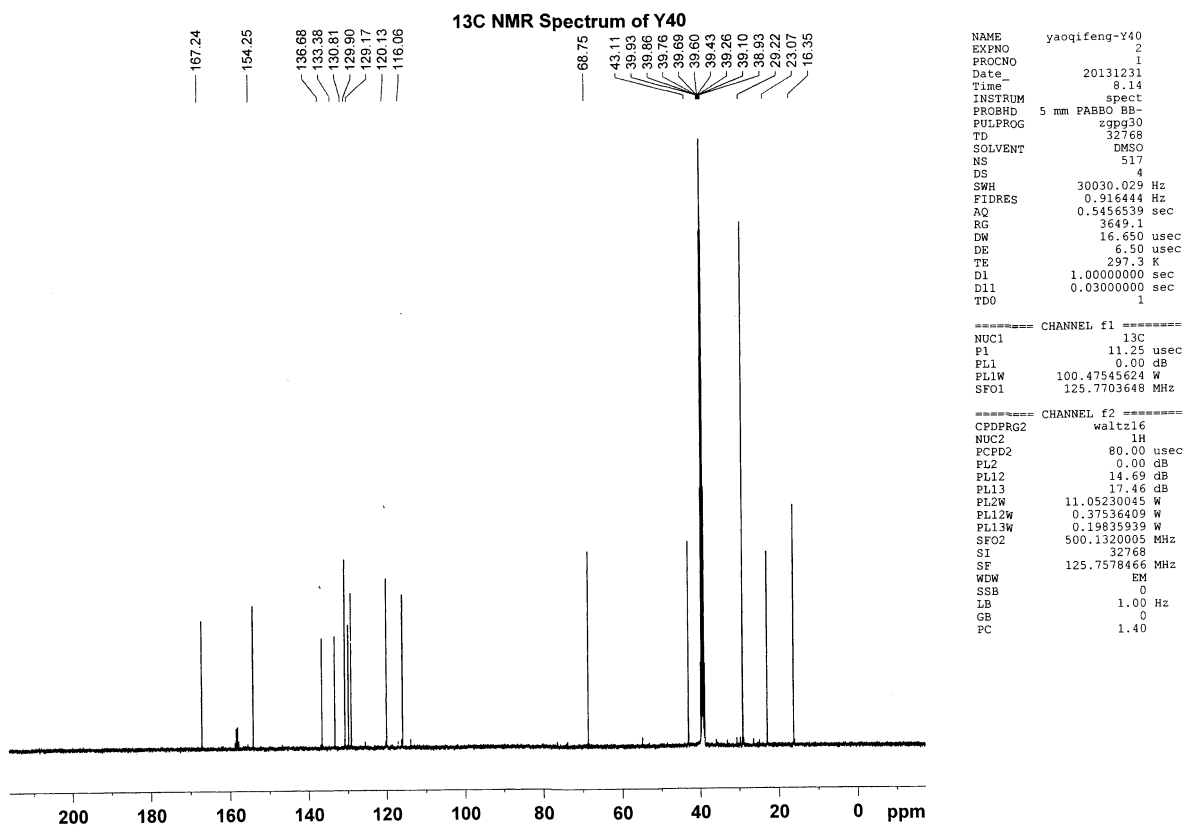


Figure S59. HMBC spectrum of 10.

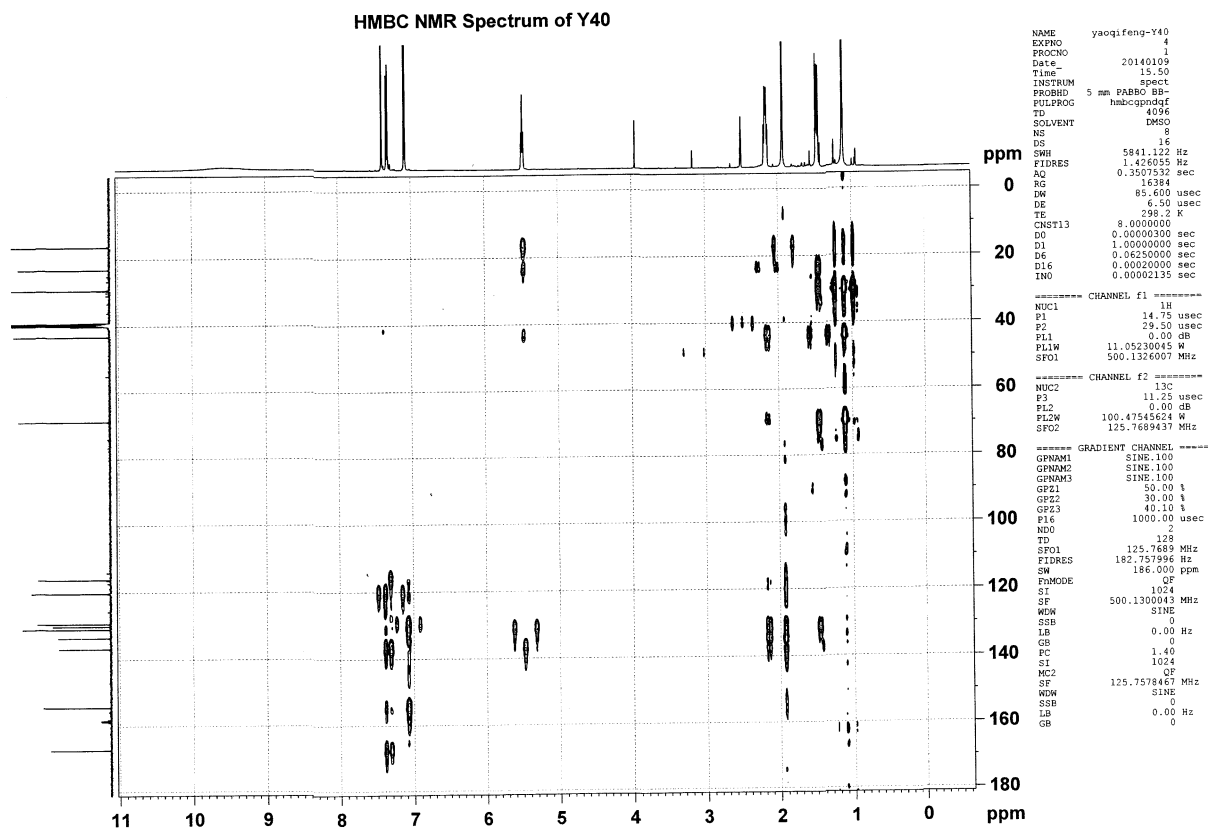


Figure S60. H-H COSY spectrum of 10.

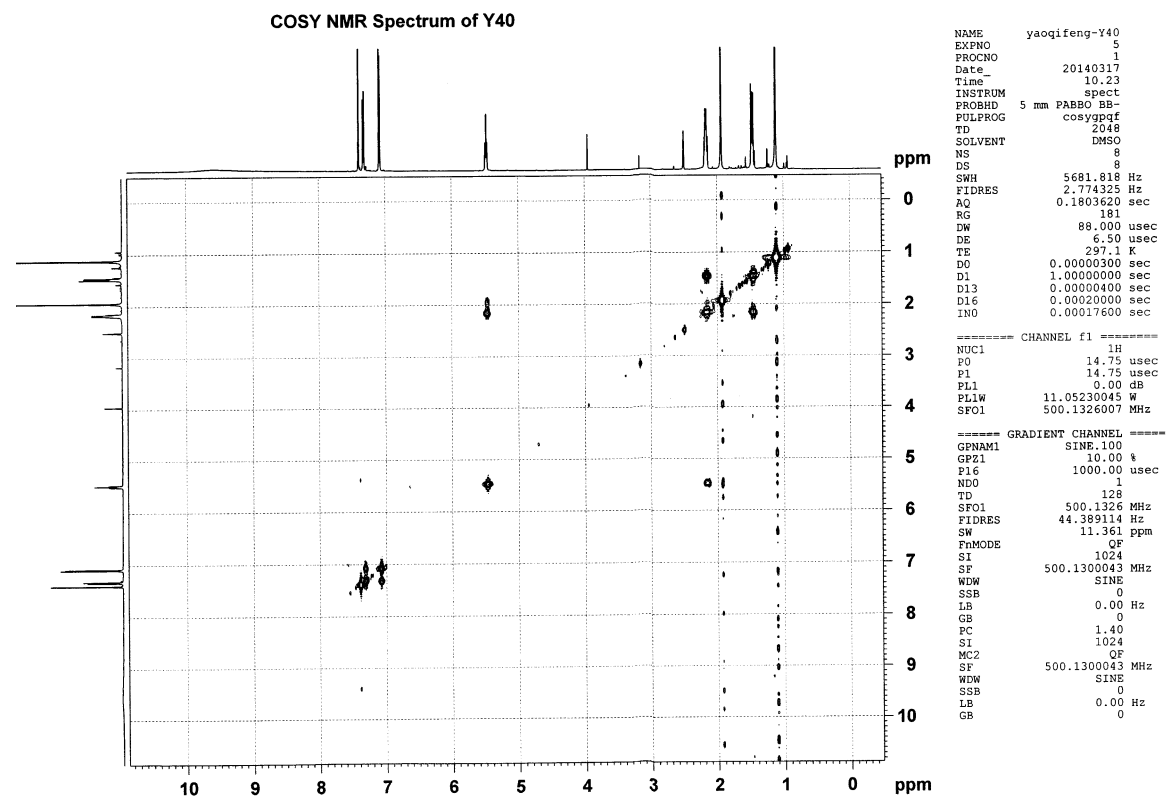


Figure S61. HRESIMS spectrum of 10.

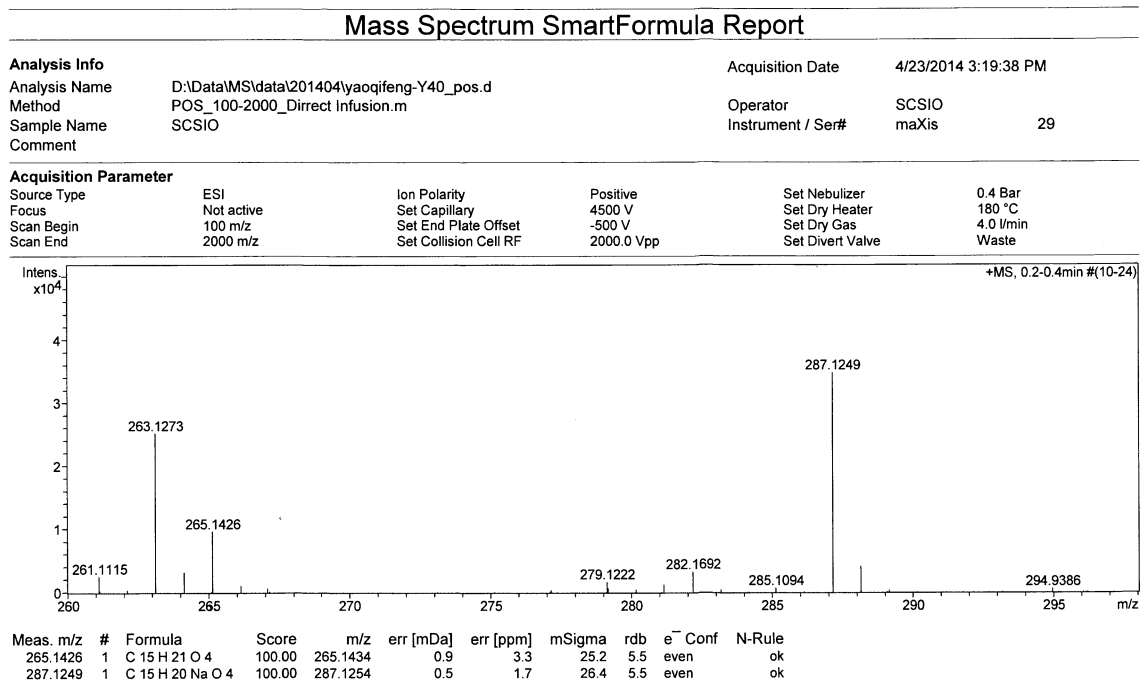


Figure S62. IR spectrum of 10.

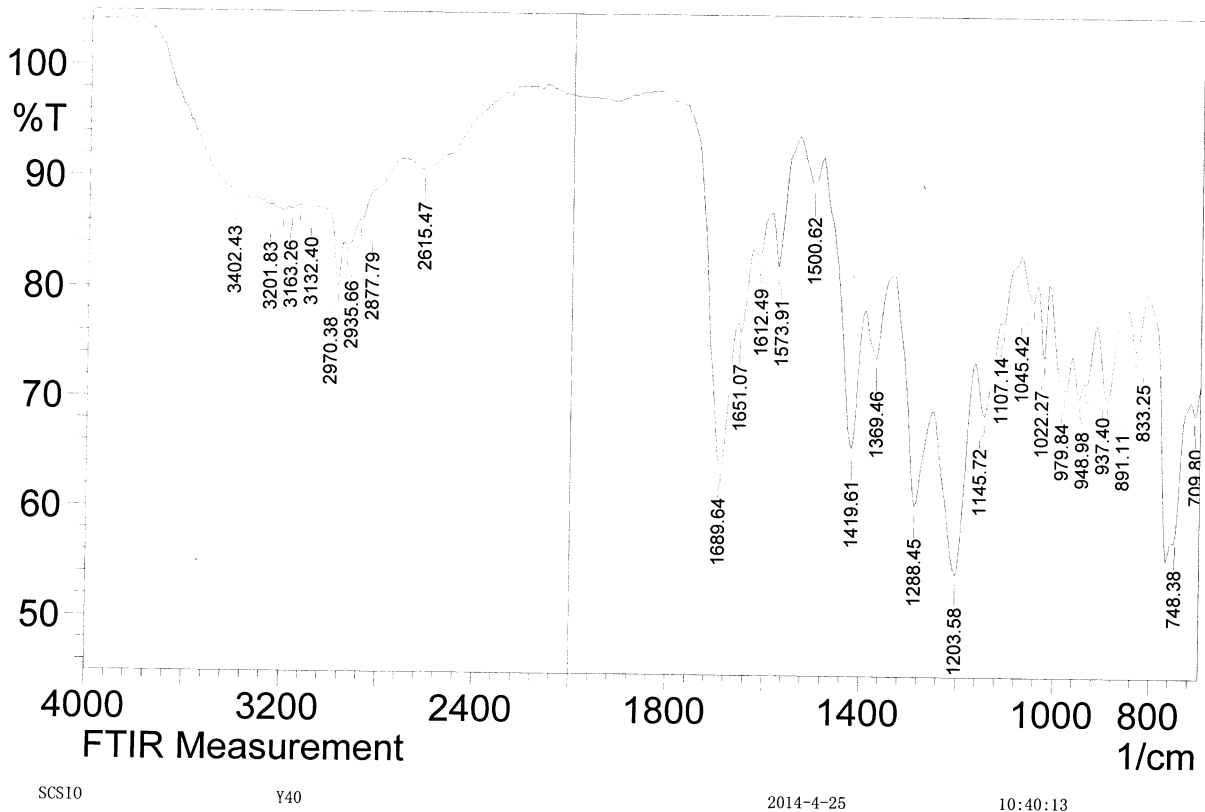


Figure S63. ¹H NMR spectrum of 11.

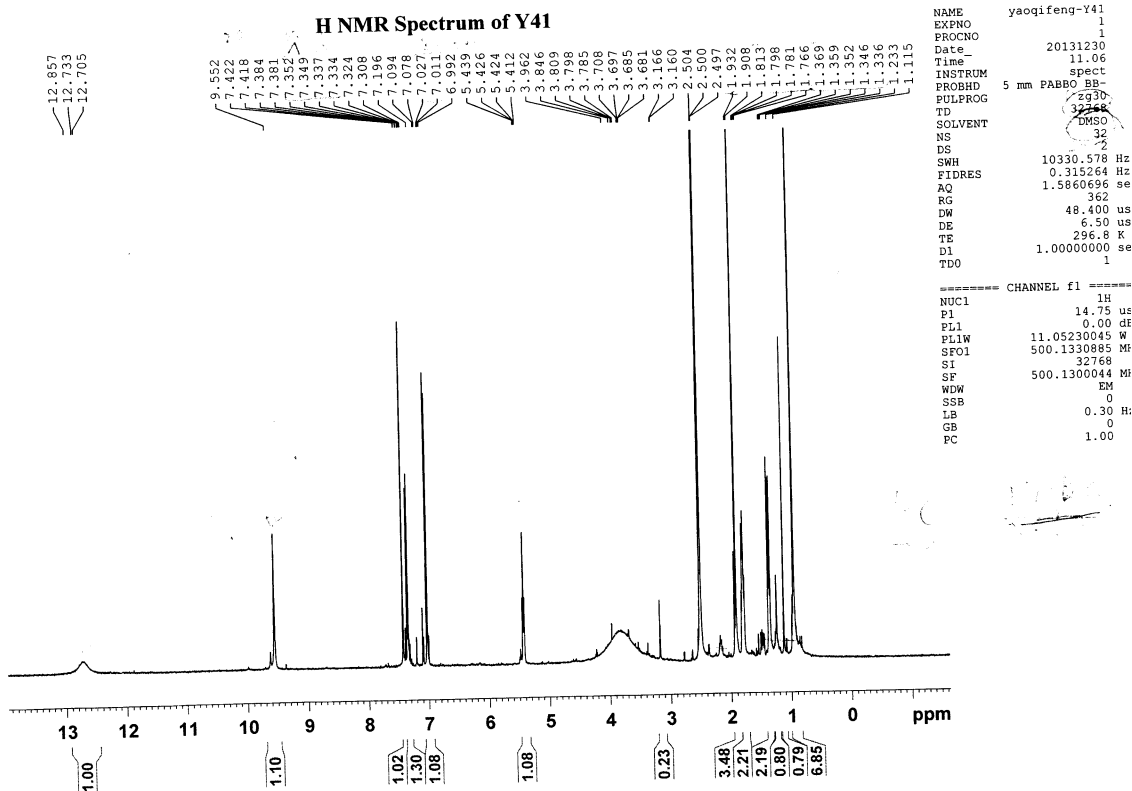


Figure S64. ¹³C NMR spectrum of 11.

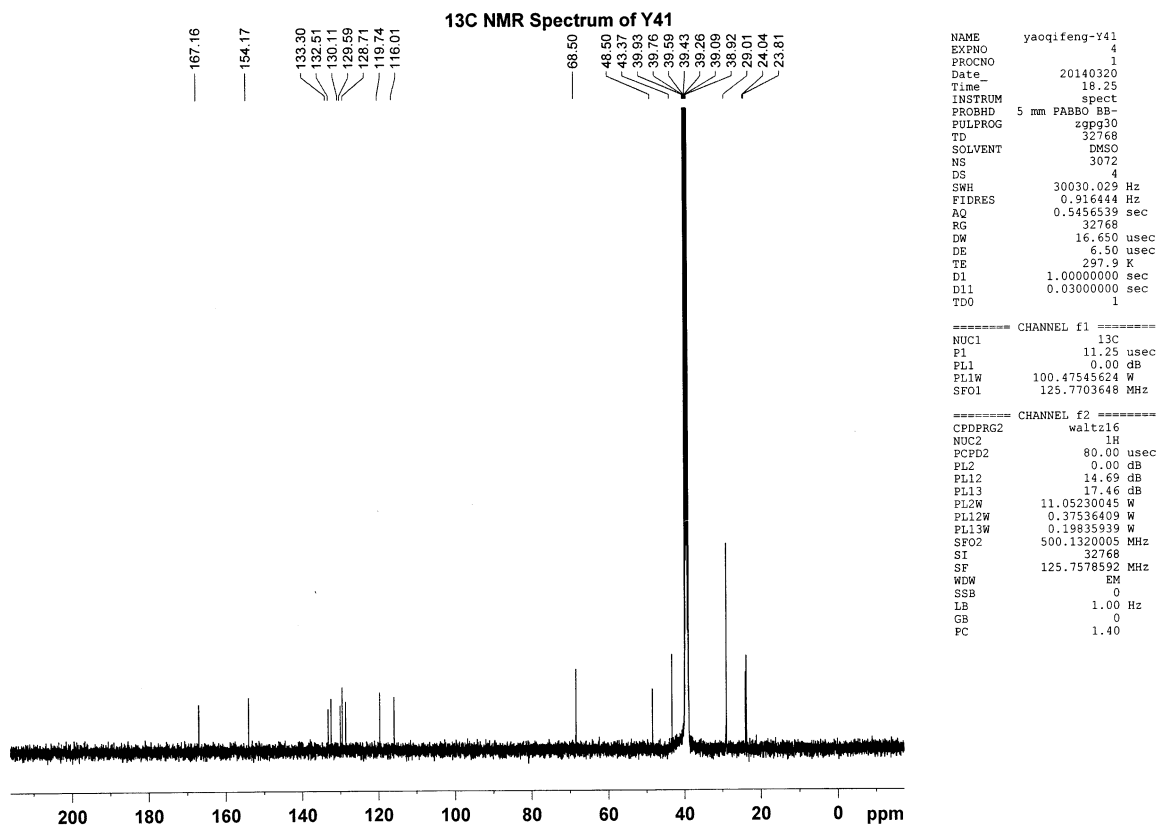


Figure S65. HMBC spectrum of 11.

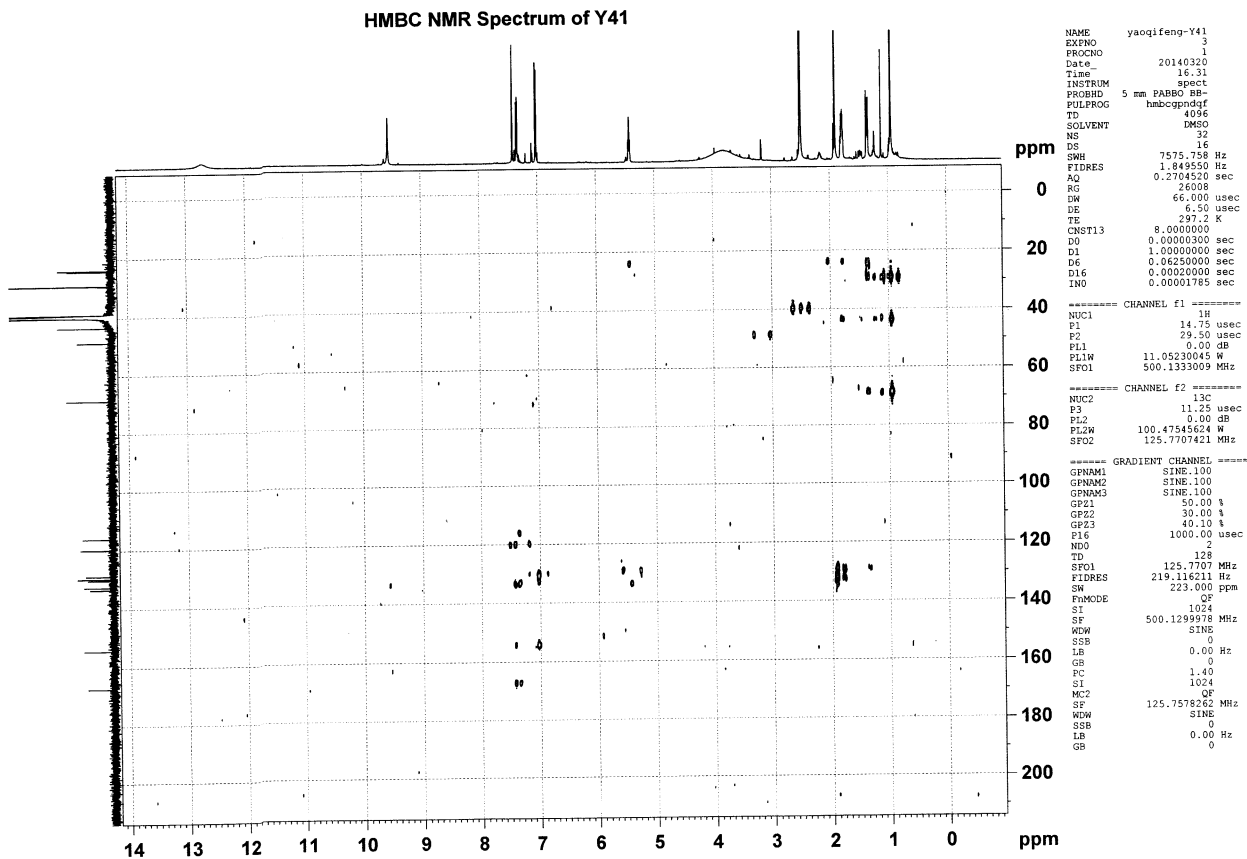


Figure S66. HRESIMS spectrum of 11.

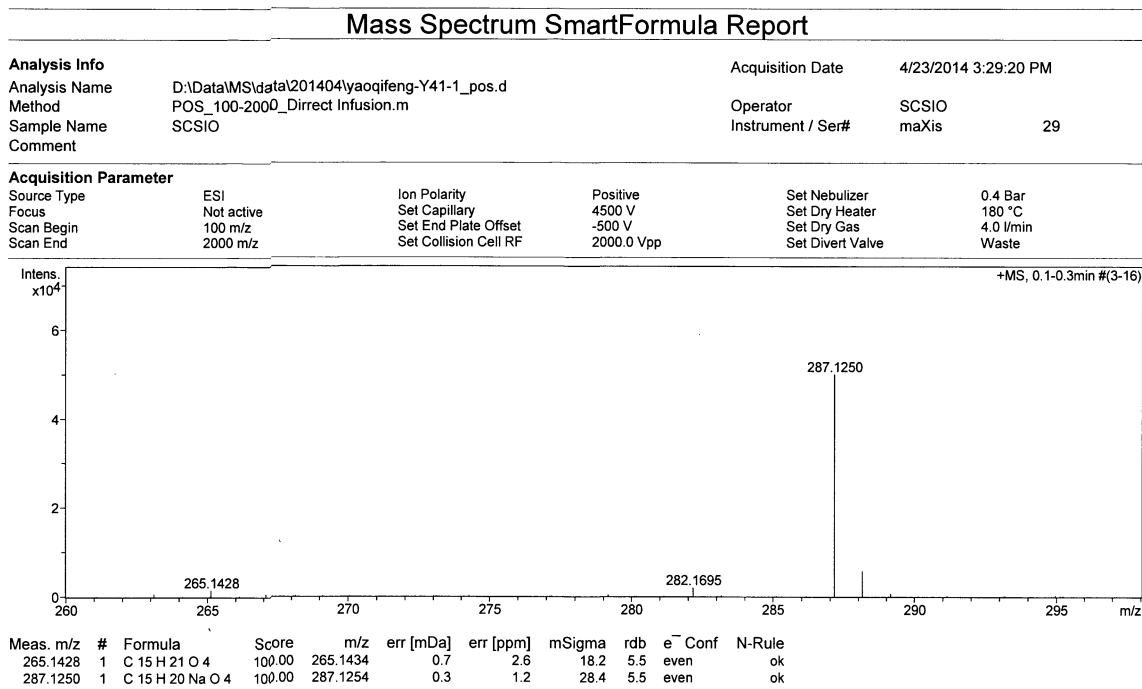


Figure S67. IR spectrum of 11.

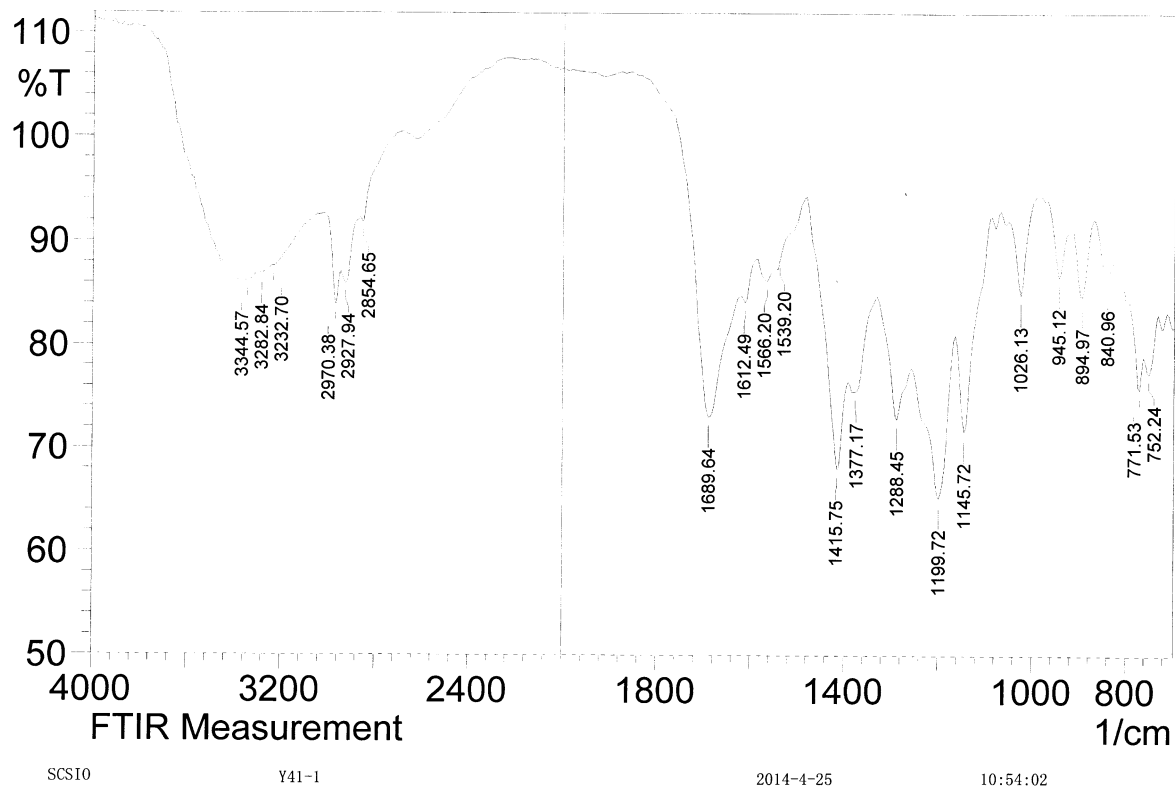
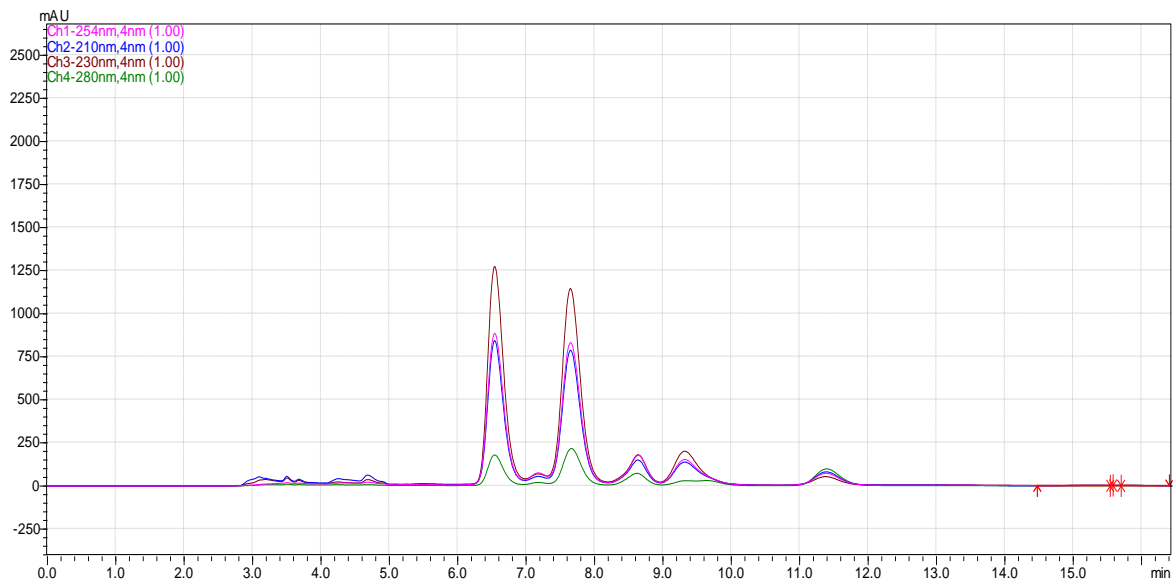
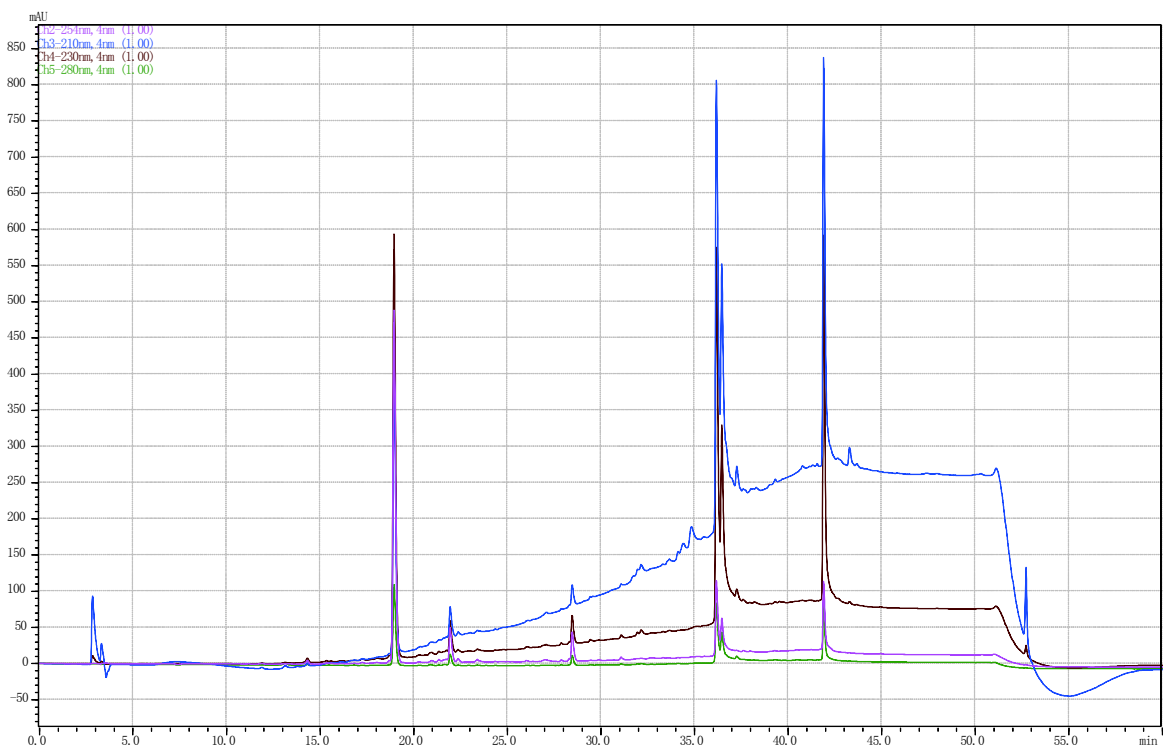


Figure S68. HPLC analysis of compound **5** on a chiral column OD-H (Daicel corporation, Osaka, Japan) (IPA/ n-hexane 30:70) and a C18 column (impurity substance was brought in after several transfer). **(a)** HPLC analysis of compound **5** on a chiral column OD-H; **(b)** HPLC analysis of compound **5** on a C18 column.

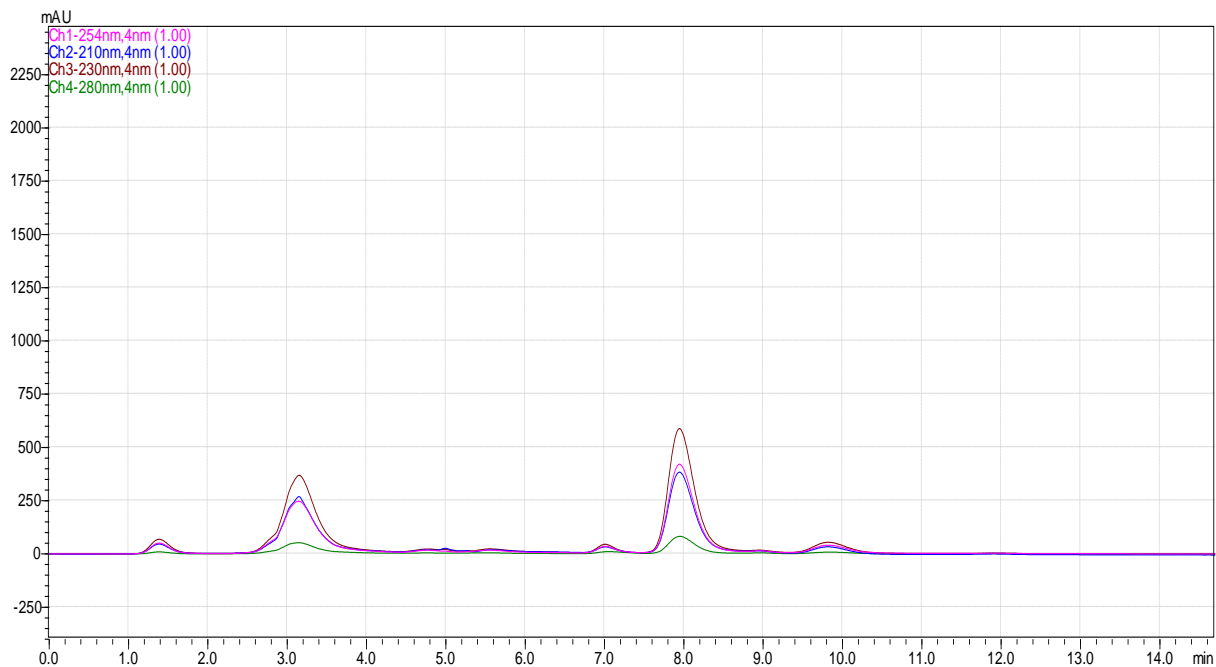


(a)

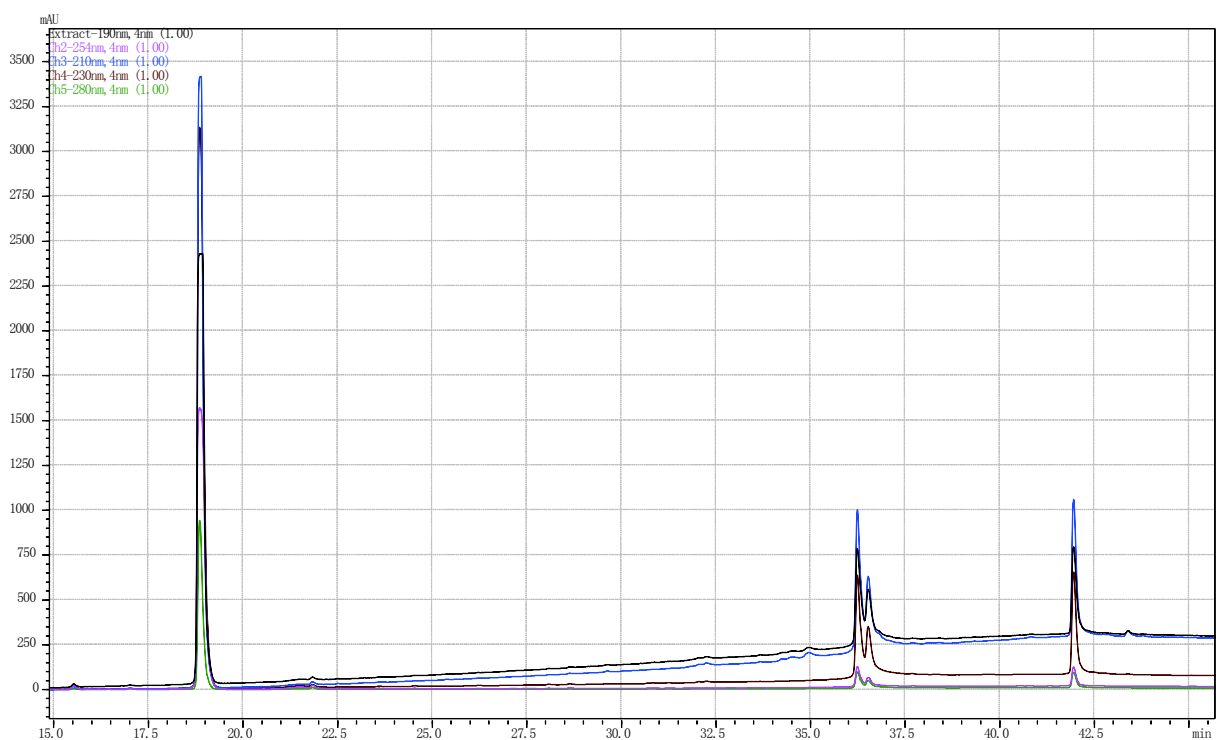


(b)

Figure S69. HPLC analysis of compound **6** on a chiral column (IPA/ n-hexane 30:70) and a C18 column. (a) HPLC analysis of compound **6** on a chiral column OD-H; (b) HPLC analysis of compound **6** on a C18 column.

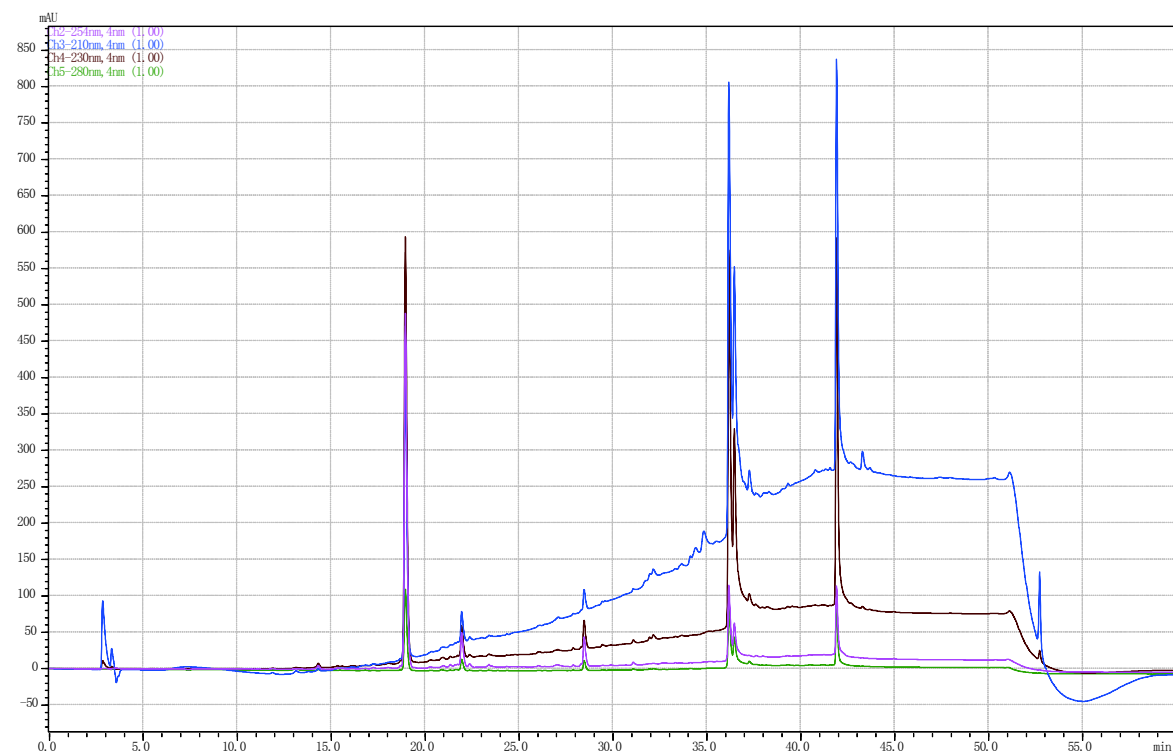


(a)

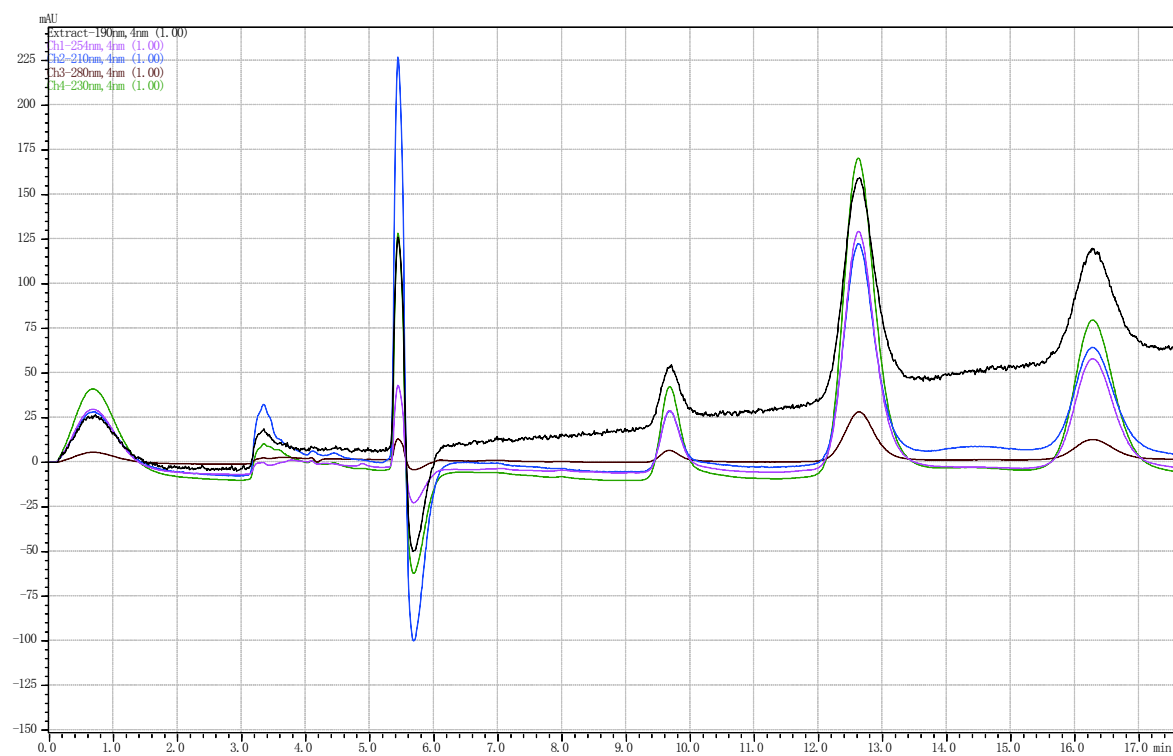


(b)

Figure S70. HPLC analysis of compound **7** on a chiral column (IPA/ n-hexane 22:78) and a C18 column (impurity substance was brought in after several transfer). **(a)** HPLC analysis of compound **7** on a chiral column OD-H; **(b)** HPLC analysis of compound **7** on a C18 column.

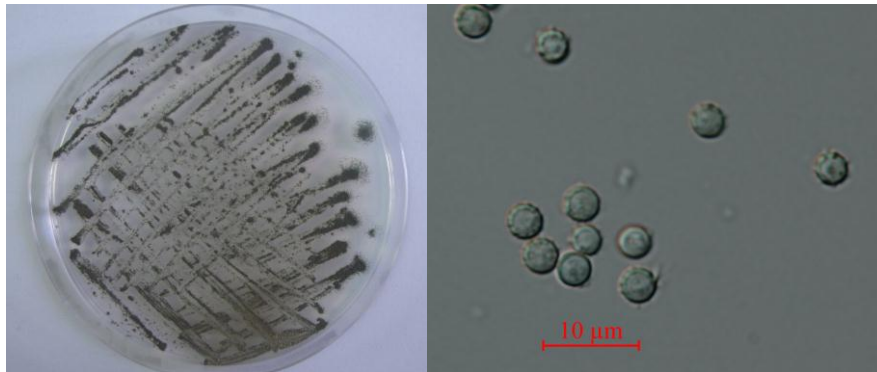


(a)



(b)

Figure S71. Macro- and micro-morphological observations of strain DFFSCS021.



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