

Electronic Supplementary Information

Limonoids from the root bark of *Dictamnus angustifolius*: potent neuroprotective agent with biometal chelation, halting copper redox cycling properties

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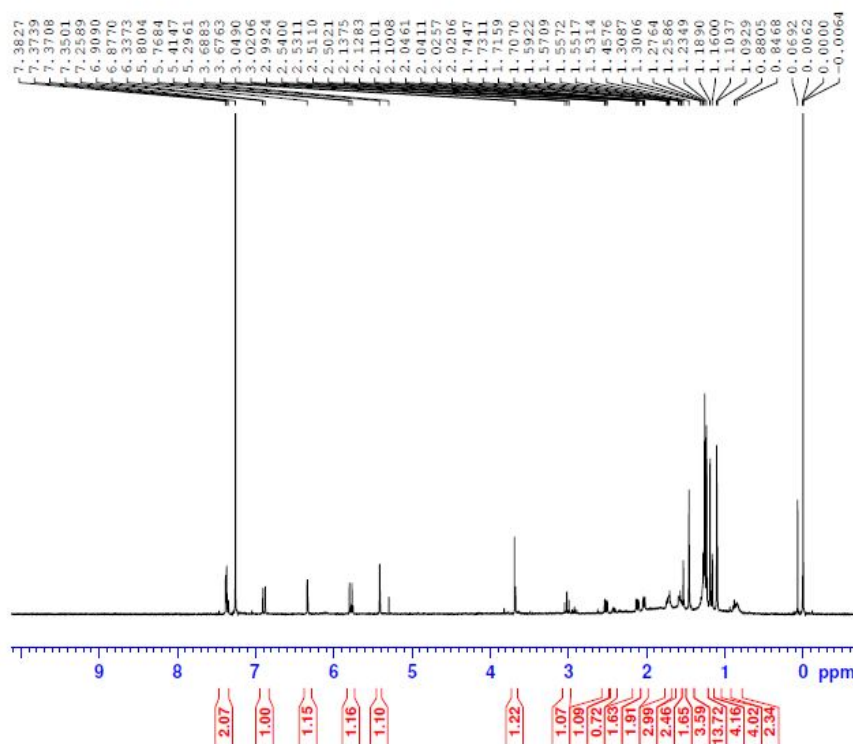
E-mail address: popoqzh@126.com.

¹ These authors contributed equally to this work and should be regarded as co-first authors.

Table of Contents

- S1.** ^1H NMR spectrum of compound **1** (500 MHz, CDCl_3)
- S2.** ^{13}C NMR spectrum of compound **1** (75 MHz, $\text{CDCl}_3 + \text{CD}_3\text{OD}$)
- S3.** ^1H NMR spectrum of compound **2** (500 MHz, CDCl_3)
- S4.** ^{13}C NMR spectrum of compound **2** (125 MHz, CDCl_3)
- S5.** HSQC spectrum of compound **2**
- S6.** HMBC spectrum of compound **2**
- S7.** ROESY spectrum of compound **2**
- S8.** ^1H NMR spectrum of compound **3** (500 MHz, CD_3COCD_3)
- S9.** ^{13}C NMR spectrum of compound **3** (125 MHz, CD_3COCD_3)
- S10.** HSQC spectrum of compound **3**
- S11.** HMBC spectrum of compound **3**
- S12.** ROESY spectrum of compound **3**
- S13.** ^1H NMR spectrum of compound **4** (300 MHz, CDCl_3)
- S14.** ^{13}C NMR spectrum of compound **4** (75 MHz, CDCl_3)
- S15.** HMBC spectrum of compound **4**
- S16.** ^1H NMR spectrum of compound **5** (500 MHz, CDCl_3)
- S17.** ^{13}C NMR spectrum of compound **5** (125 MHz, CDCl_3)
- S18.** HSQC spectrum of compound **5**
- S19.** HMBC spectrum of compound **5**
- S20.** ROESY spectrum of compound **5**
- S21.** ^1H NMR spectrum of compound **6** (300 MHz, CDCl_3)
- S22.** ^{13}C NMR spectrum of compound **6** (75 MHz, CDCl_3)

- S23.** HMBC spectrum of compound **6**
- S24.** ROESY spectrum of compound **6**
- S25.** ^1H NMR spectrum of compound **7** (500 MHz, CDCl_3)
- S26.** ^{13}C NMR spectrum of compound **7** (125 MHz, CDCl_3)
- S27.** HSQC spectrum of compound **7**
- S28.** HMBC spectrum of compound **7**
- S29.** ROESY spectrum of compound **7**
- S30.** ^1H NMR spectrum of compound **8** (300 MHz, CDCl_3)
- S31.** ^1H NMR spectrum of compound **9** (500 MHz, CDCl_3)
- S32.** ^1H NMR spectrum of compound **10** (300 MHz, CDCl_3)

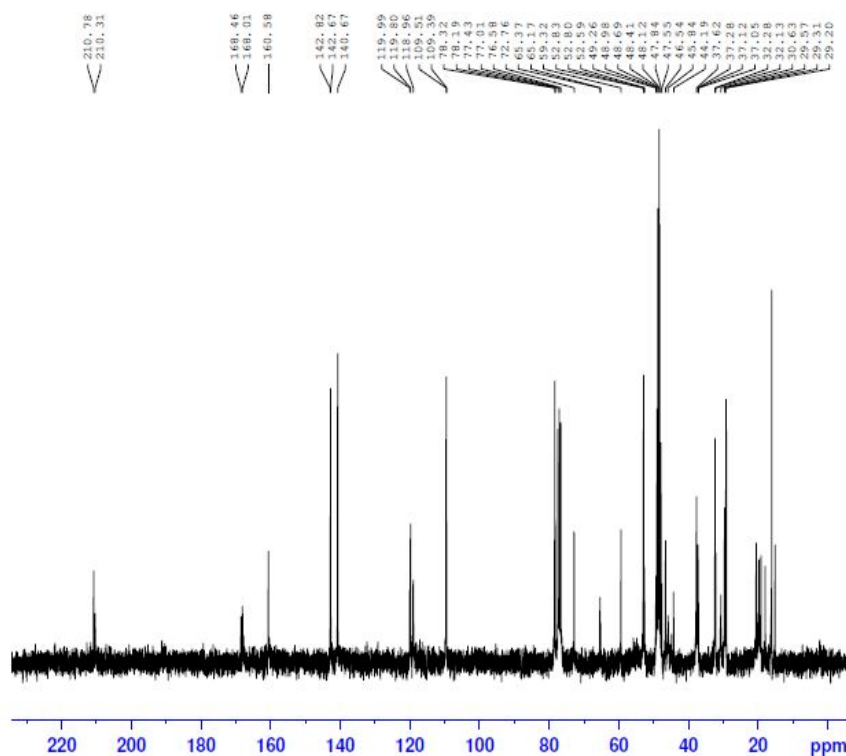


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| Time | 23.31 | | |
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| PULPROG | zg30 | | |
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| SOLVENT | CDCl3 | | |
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SI                  32768
SF                  500.1300134 MHz
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LB                   0.10 Hz
GB                   0
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S1. ¹H NMR spectrum of compound **1** (500 MHz, CDCl₃)

DA-14 ¹³C-NMR CDCL₃+CD₃OD 300K AV-300

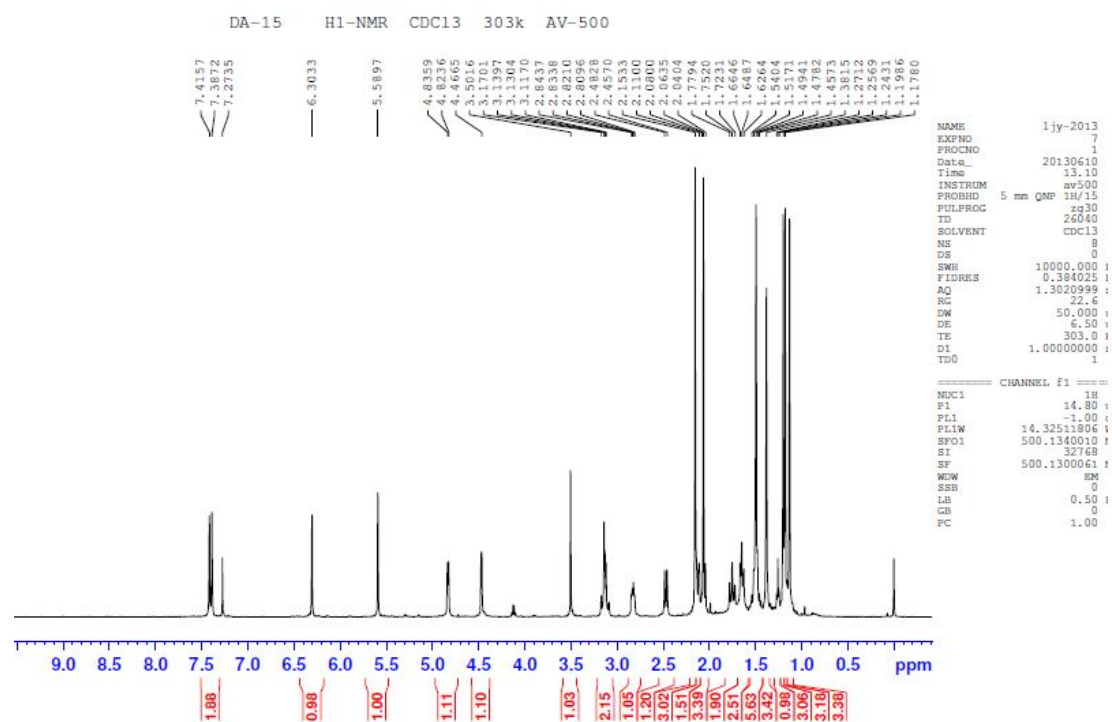


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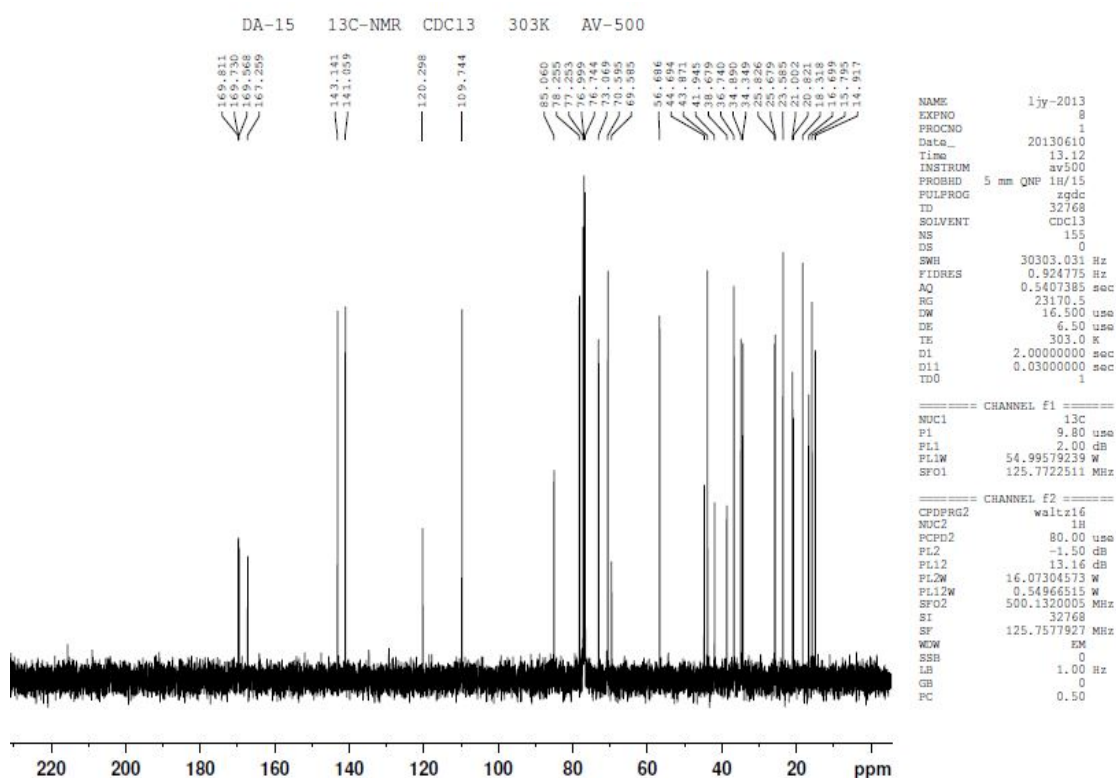
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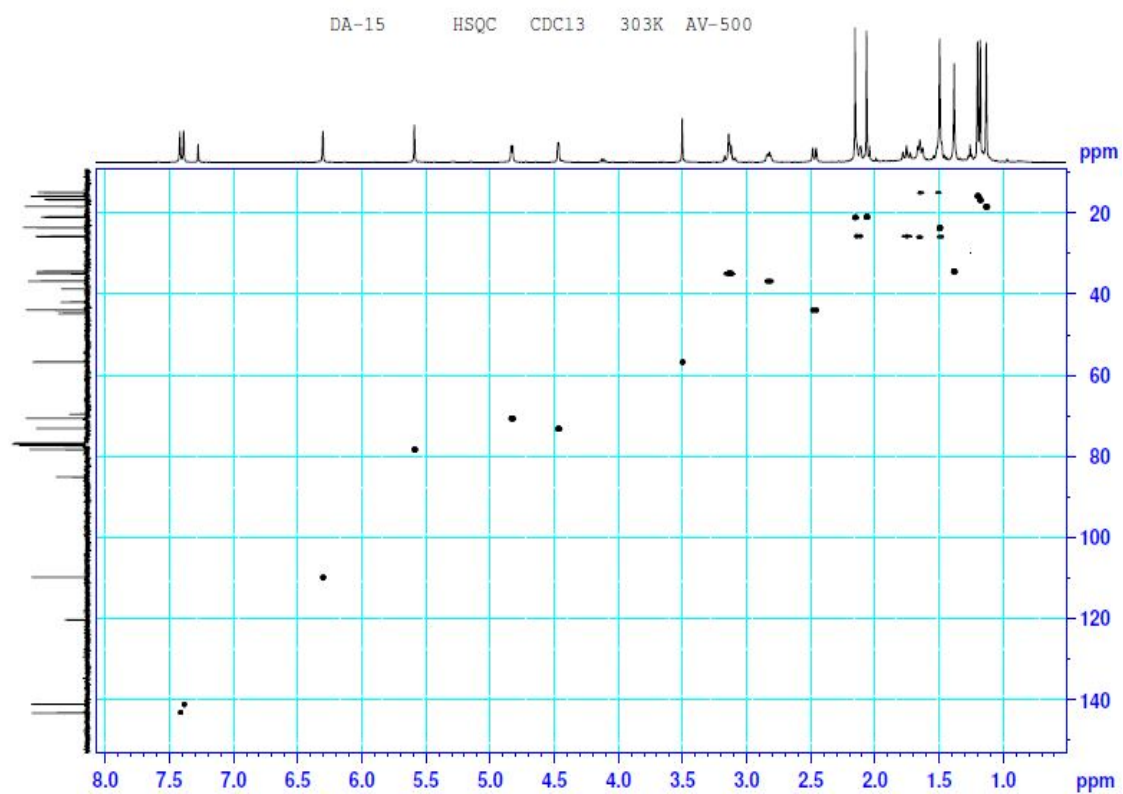
S2. ^{13}C NMR spectrum of compound **1** (75 MHz, $\text{CDCl}_3 + \text{CD}_3\text{OD}$)



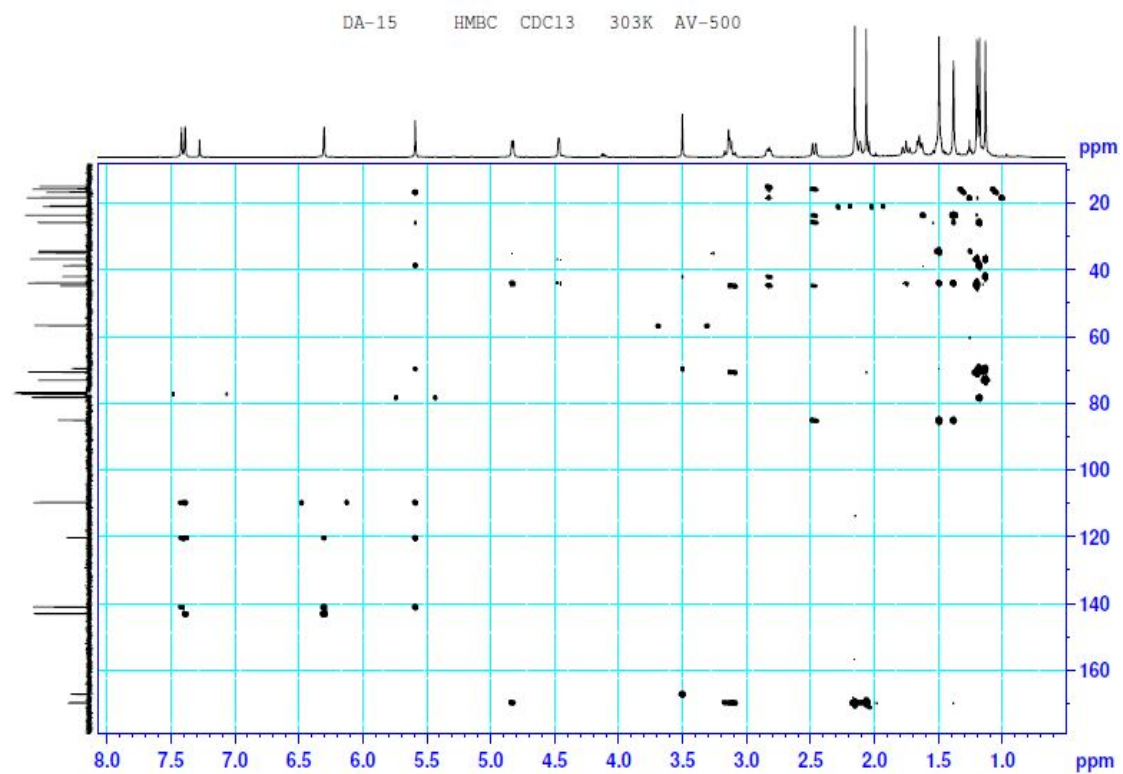
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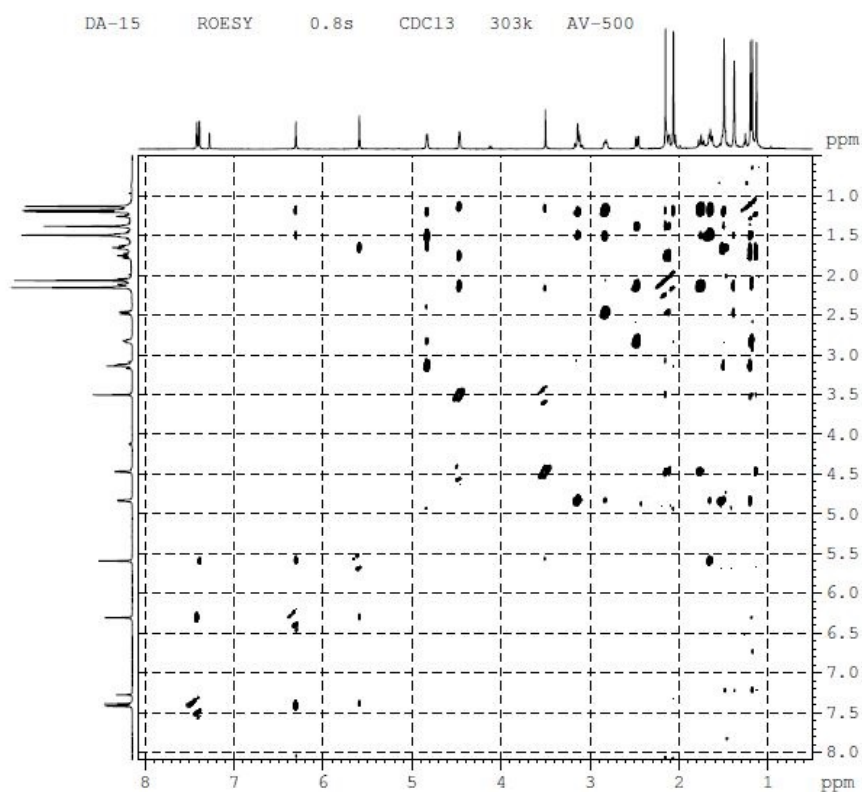
S4. ^{13}C NMR spectrum of compound **2** (125 MHz, CDCl_3)



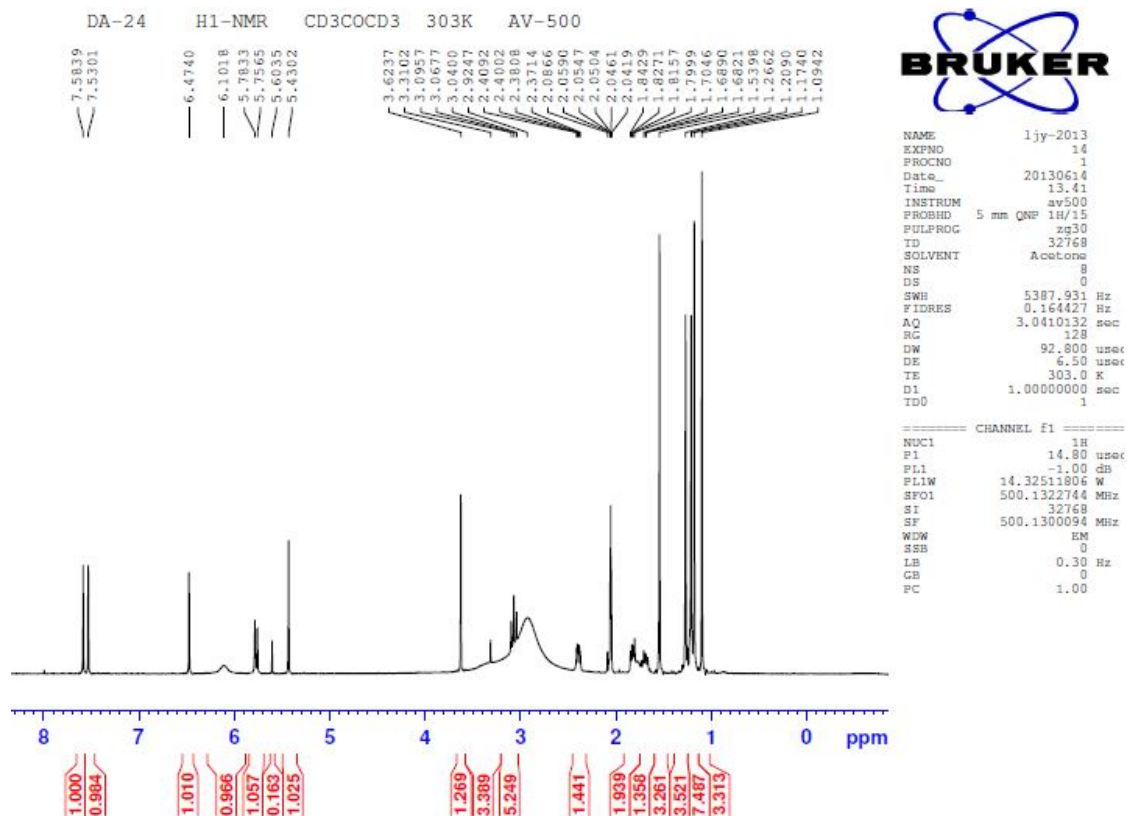
S5. HSQC spectrum of compound **2**



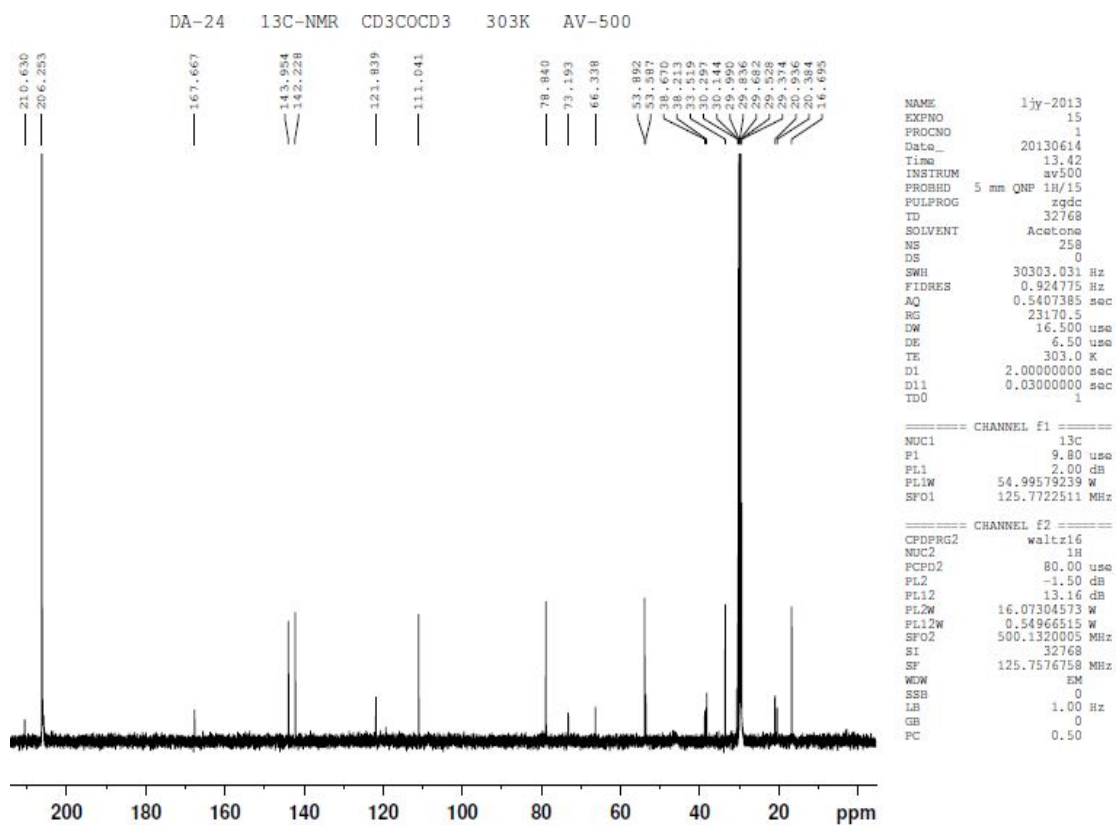
S6. HMBC spectrum of compound **2**



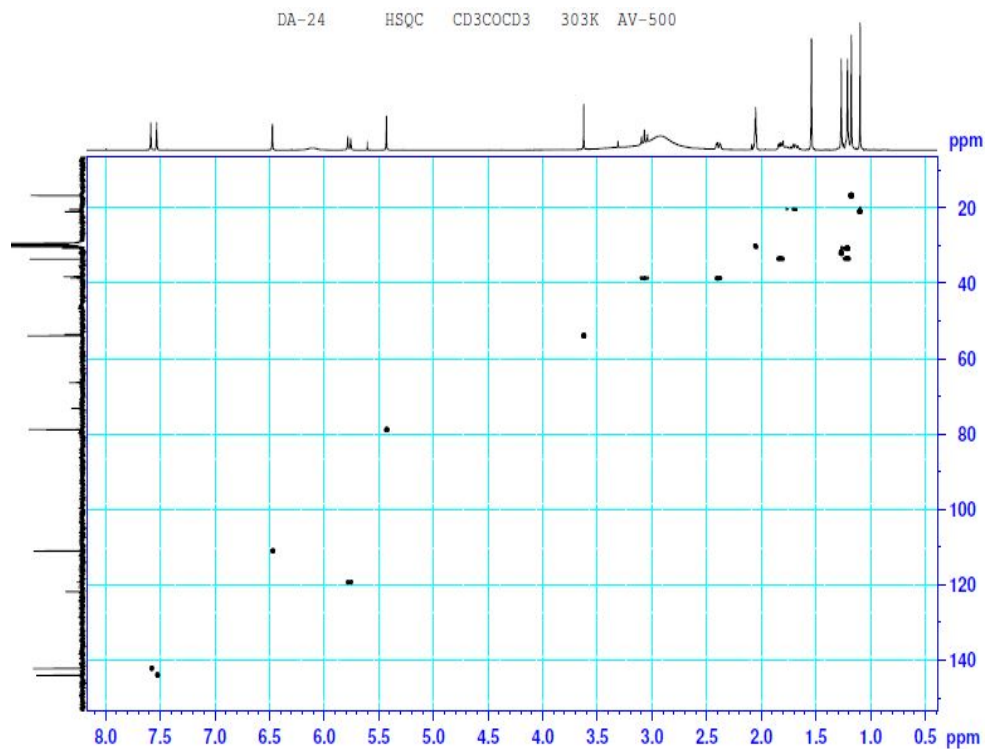
S7. ROESY spectrum of compound 2



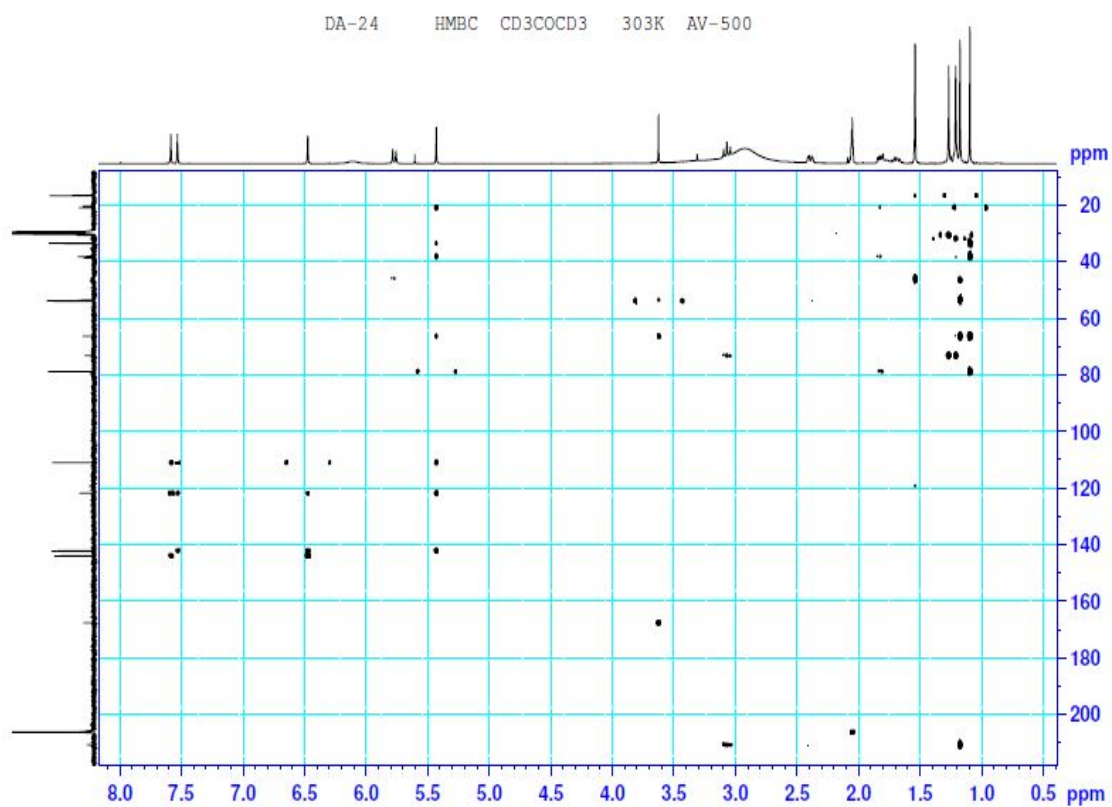
S8. ^1H NMR spectrum of compound 3 (500 MHz, CD_3COCD_3)



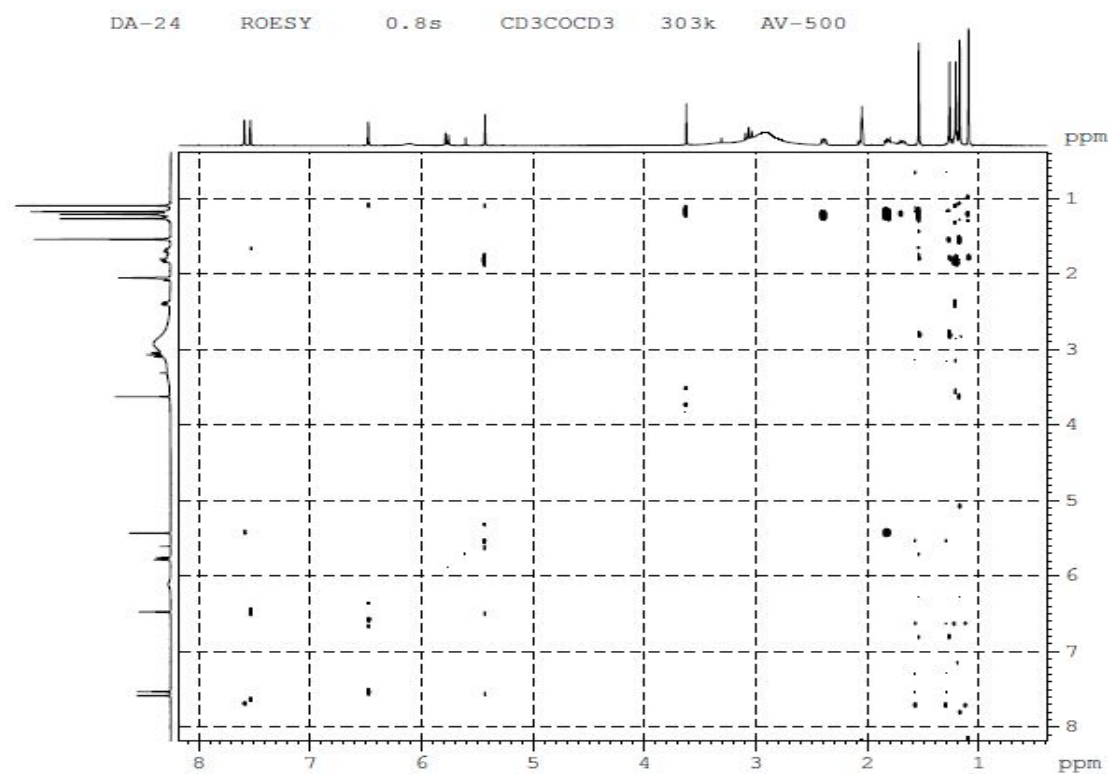
S9. ^{13}C NMR spectrum of compound **3** (125 MHz, CD_3COCD_3)



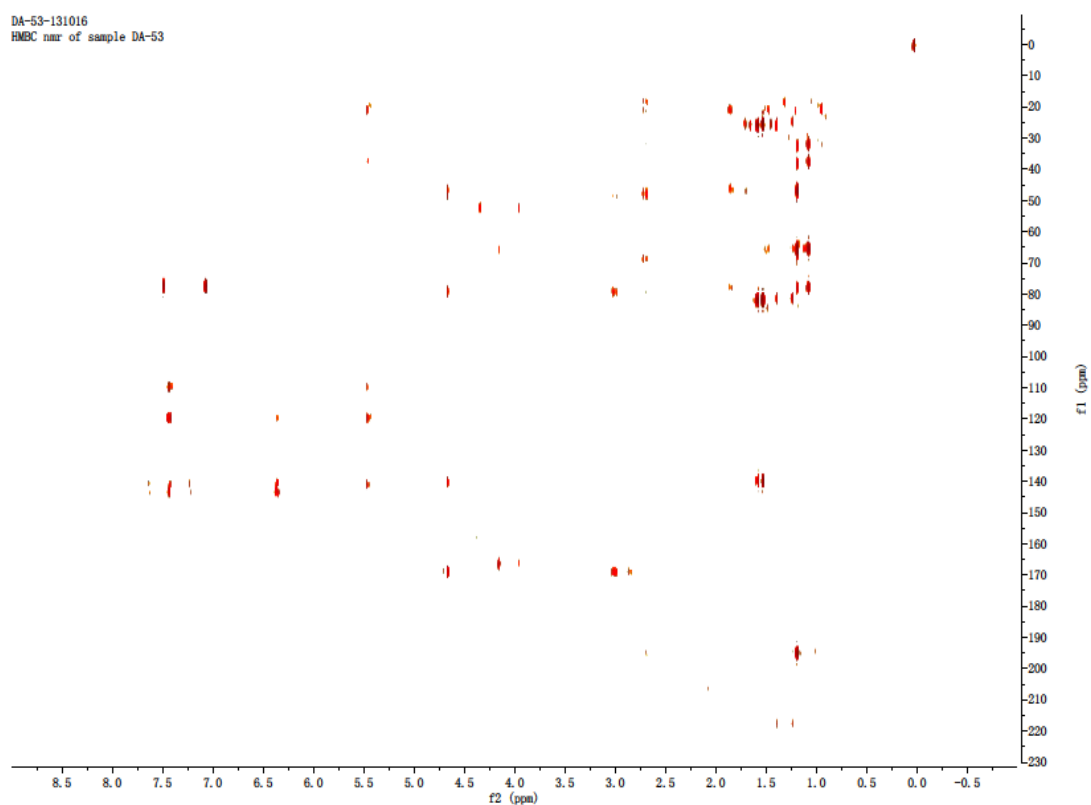
S10. HSQC spectrum of compound **3**



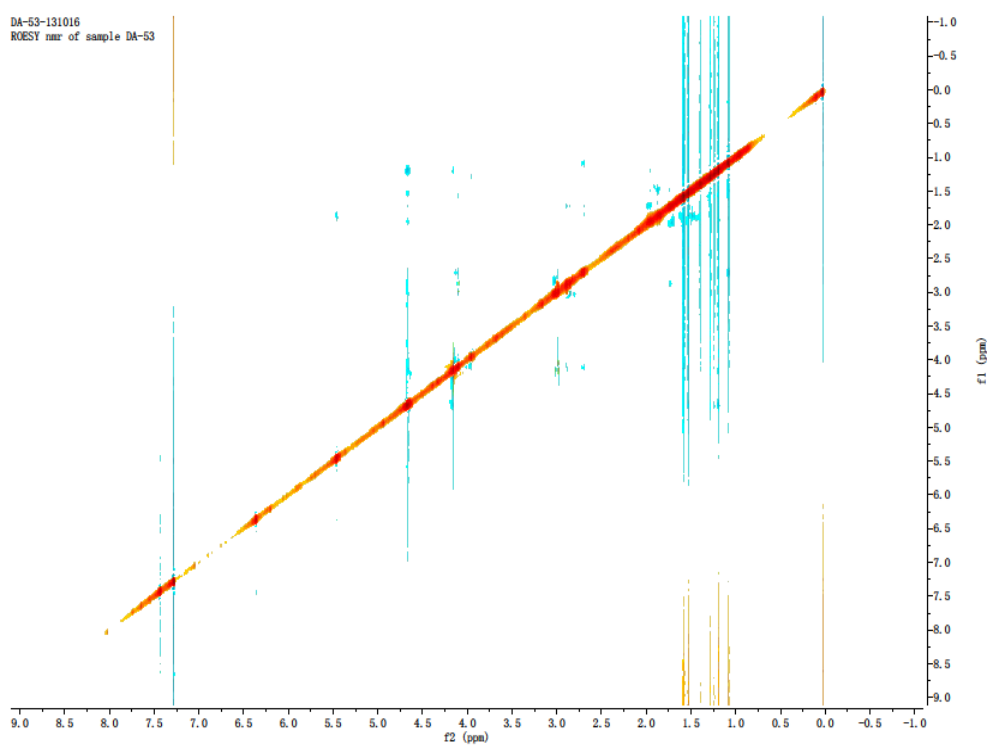
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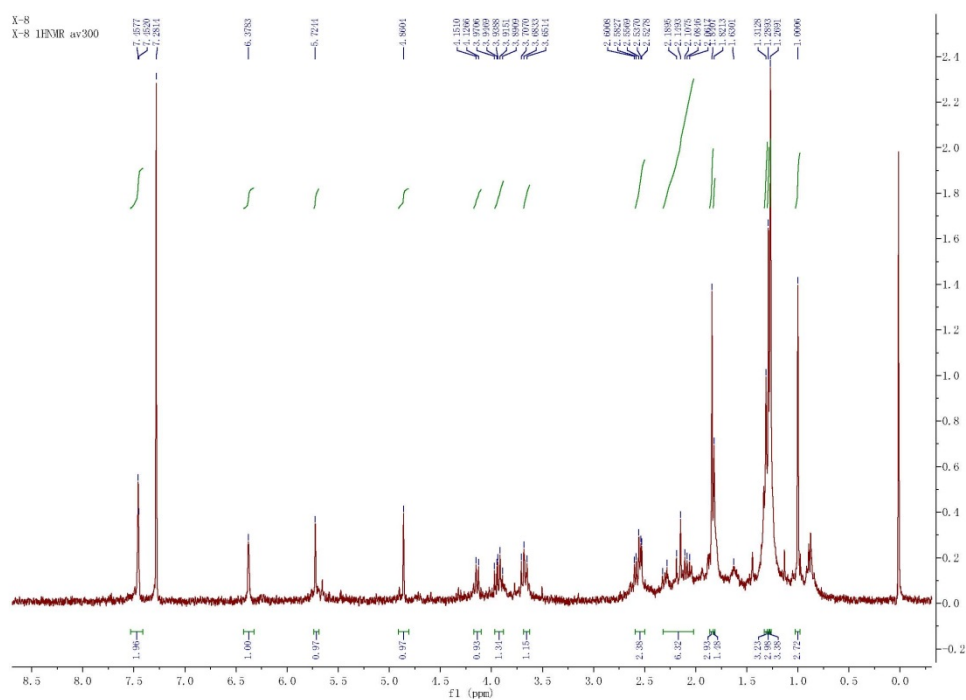
S12. ROESY spectrum of compound **3**



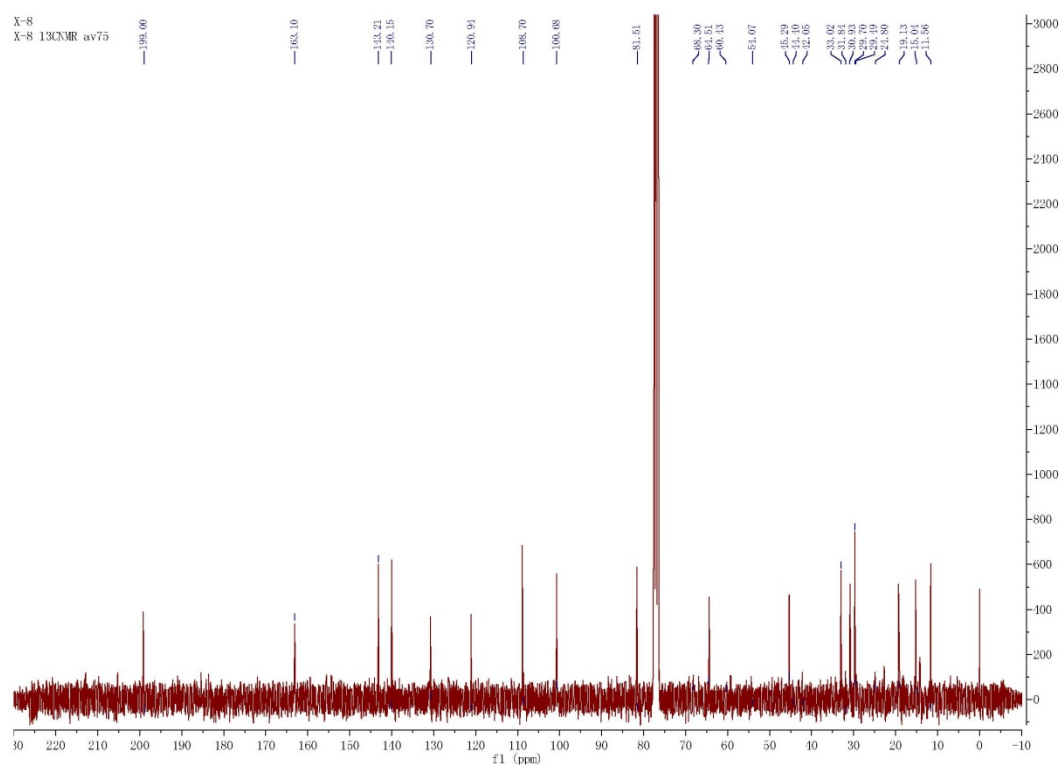
S19. HMBC spectrum of compound **5**



S20. ROESY spectrum of compound **5**

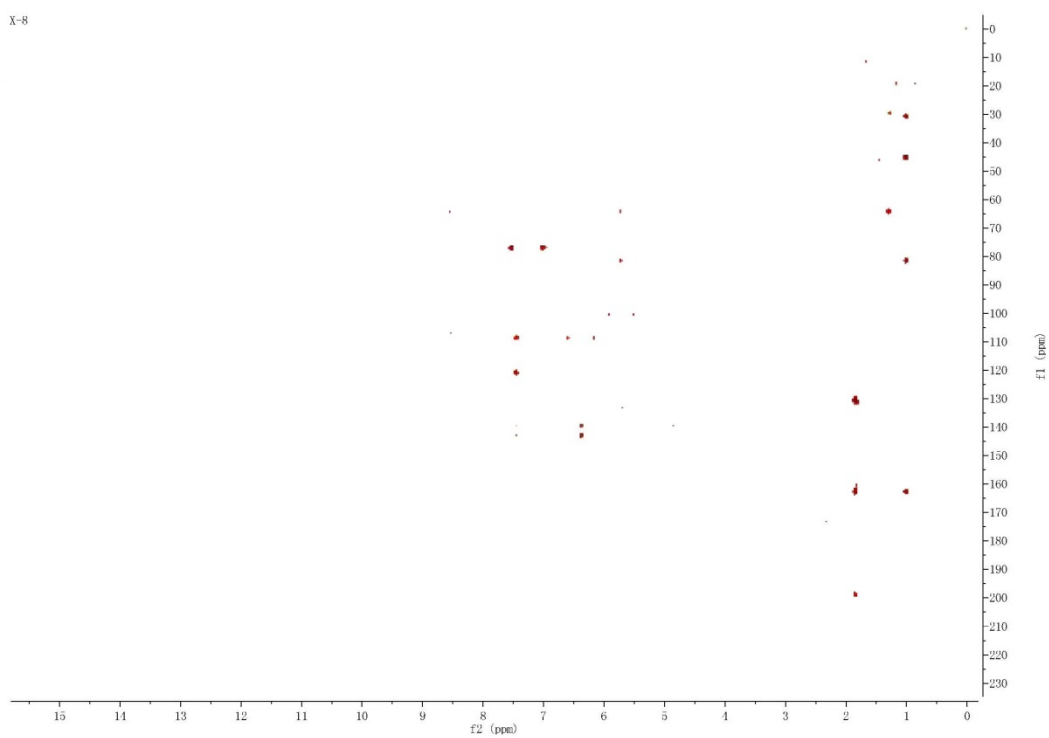


S21. ^1H NMR spectrum of compound **6** (300 MHz, CDCl_3)



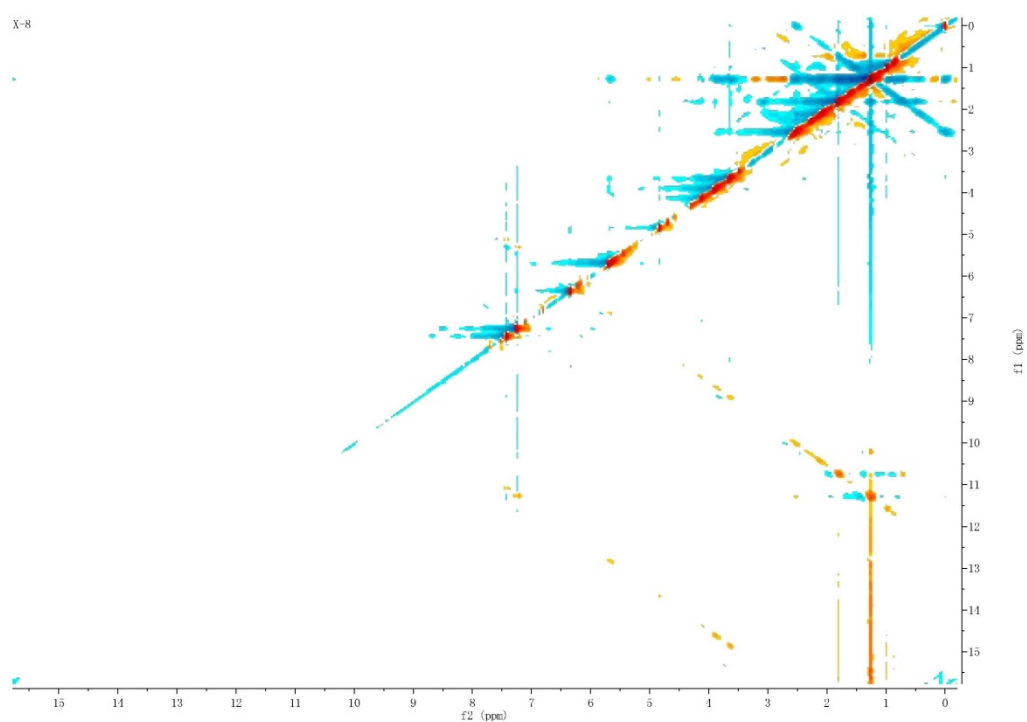
S22. ^{13}C NMR spectrum of compound **6** (75 MHz, CDCl_3)

X-8

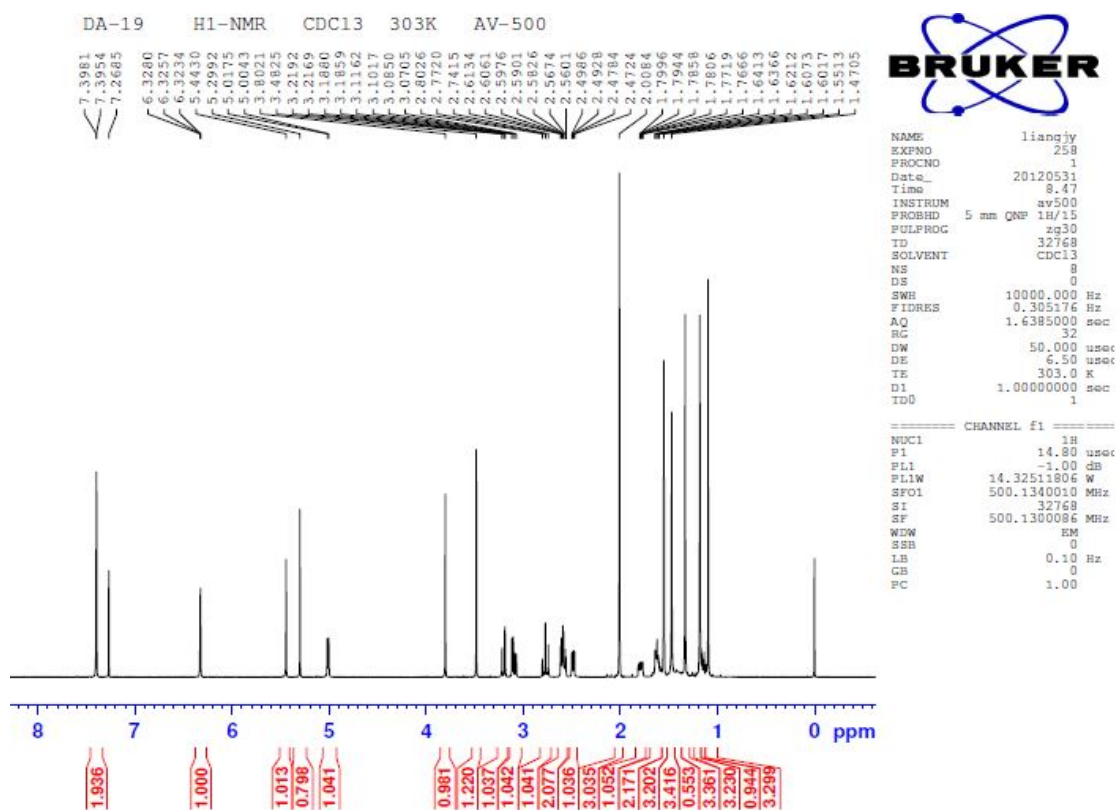


S23. HMBC spectrum of compound **7**

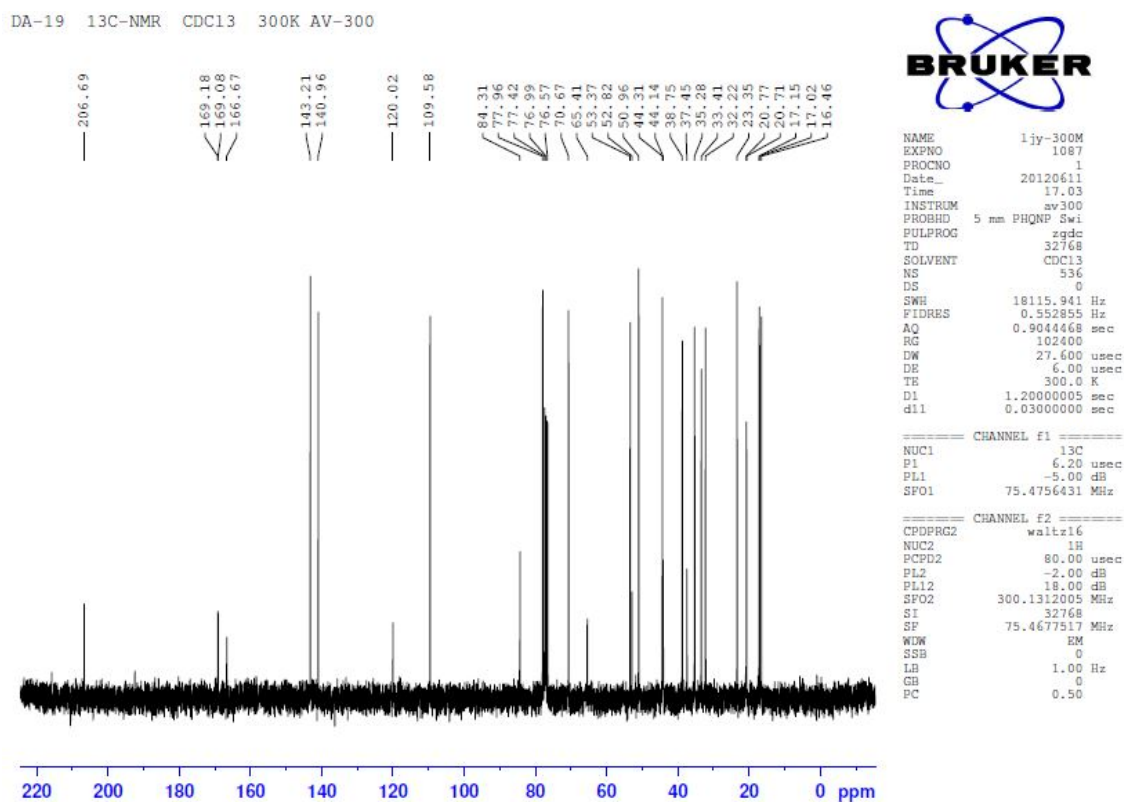
X-8



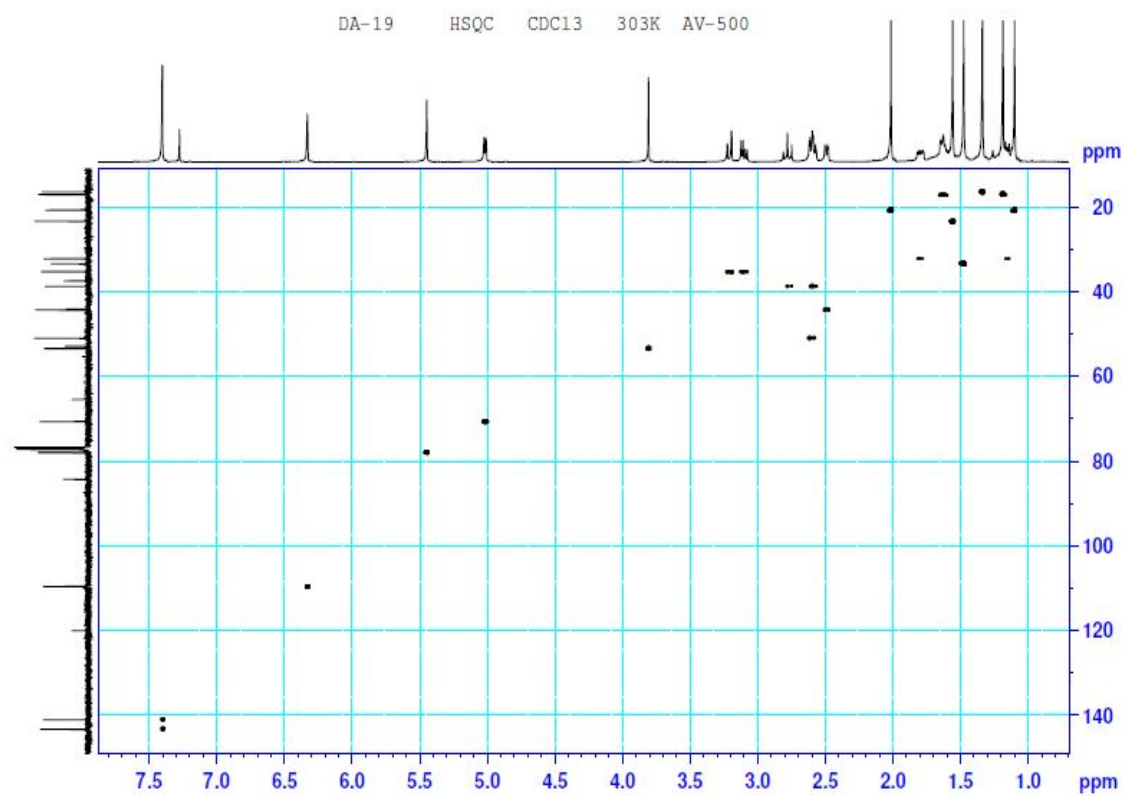
S24. ROESY spectrum of compound **6**



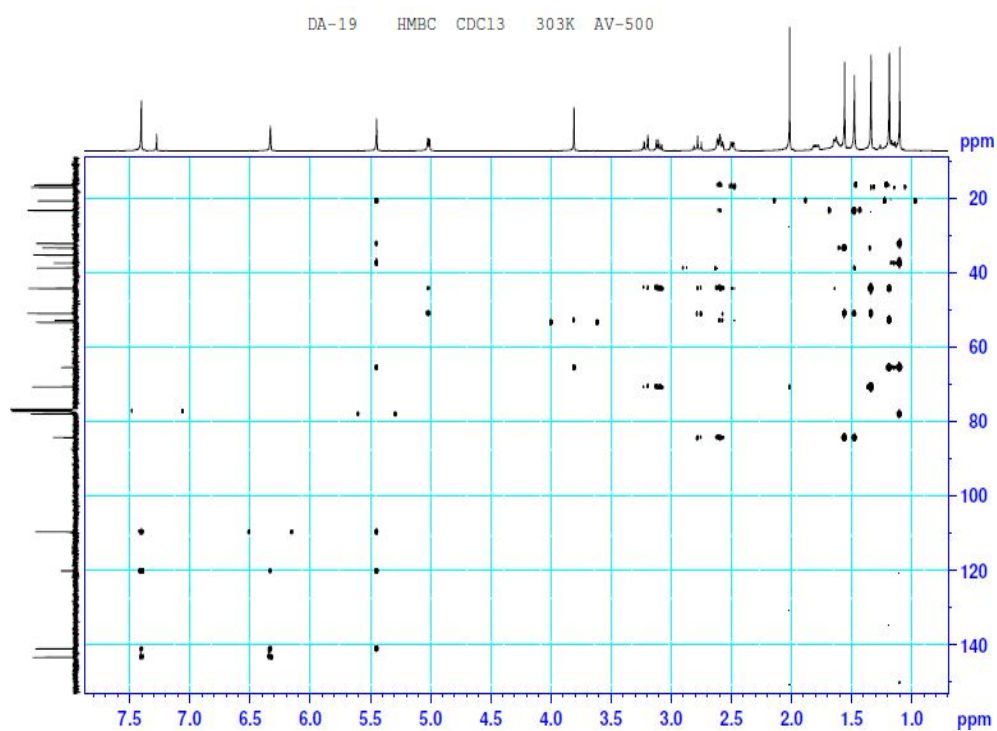
S25. ^1H NMR spectrum of compound **7** (500 MHz, CDCl_3)



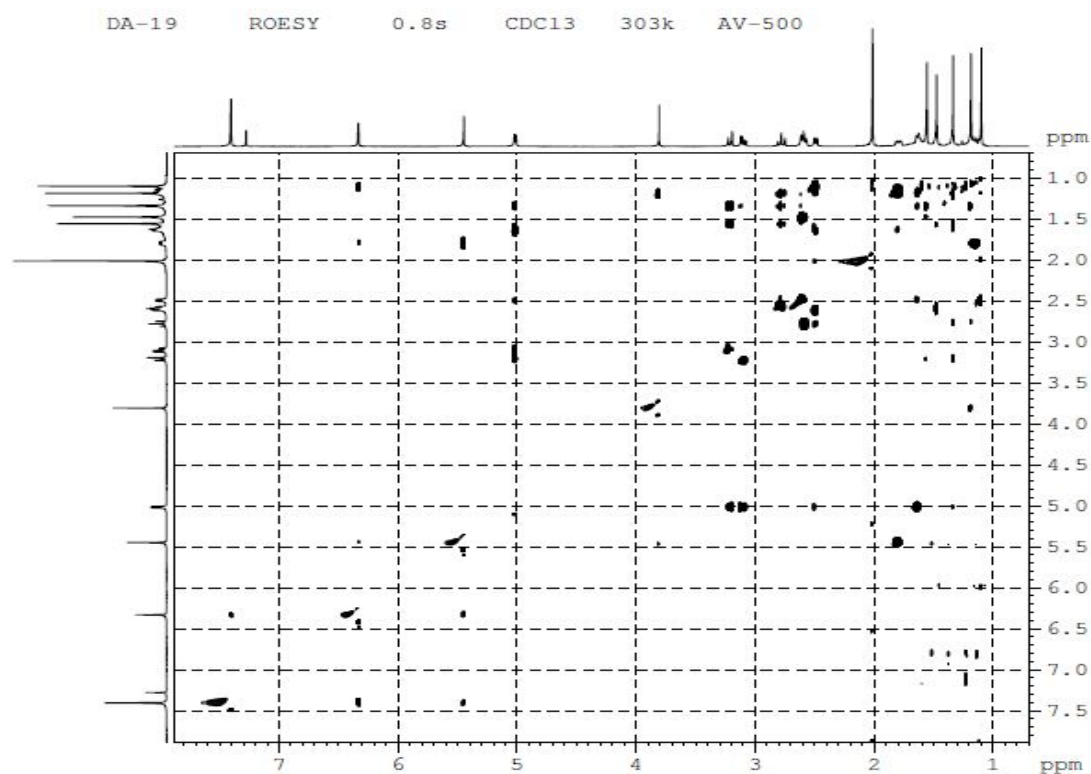
S26. ^{13}C NMR spectrum of compound **7** (125 MHz, CDCl_3)



S27. HSQC spectrum of compound 7

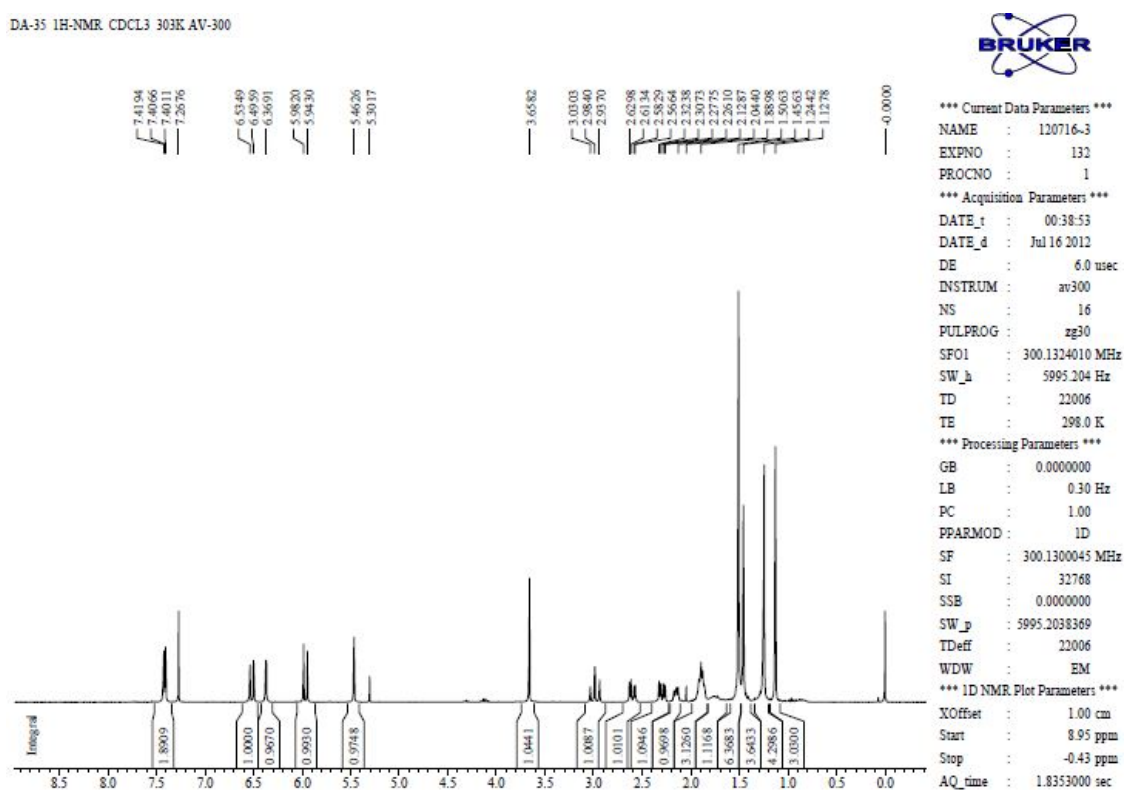


S28. HMBC spectrum of compound 7

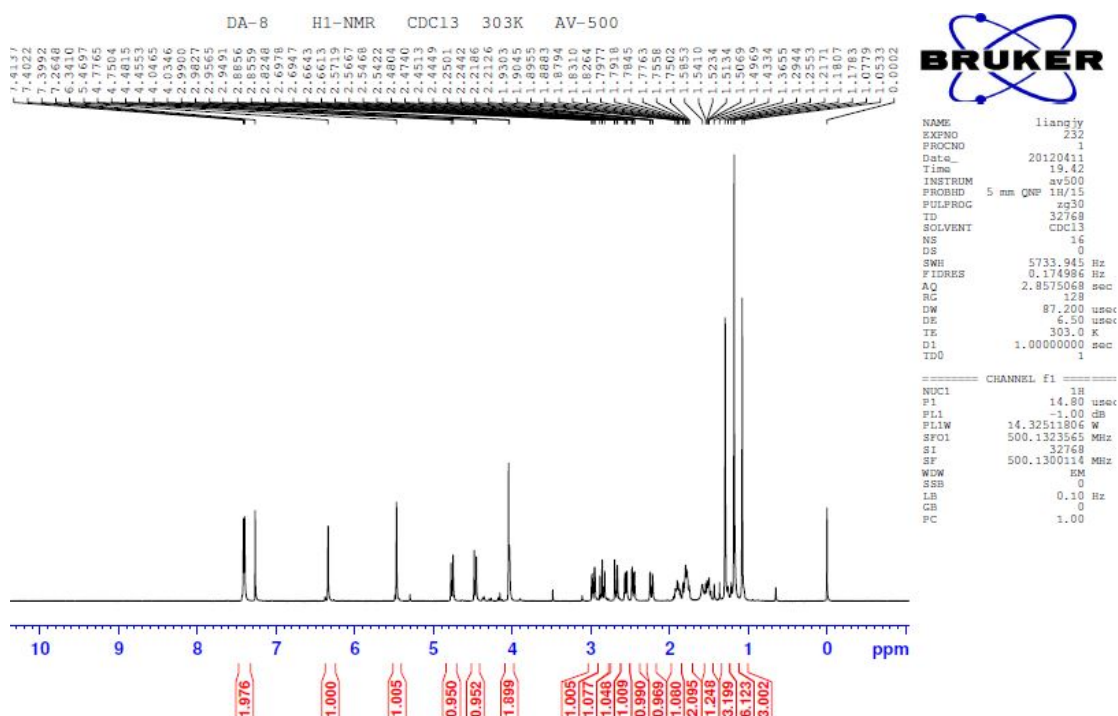


S29. ROESY spectrum of compound **7**

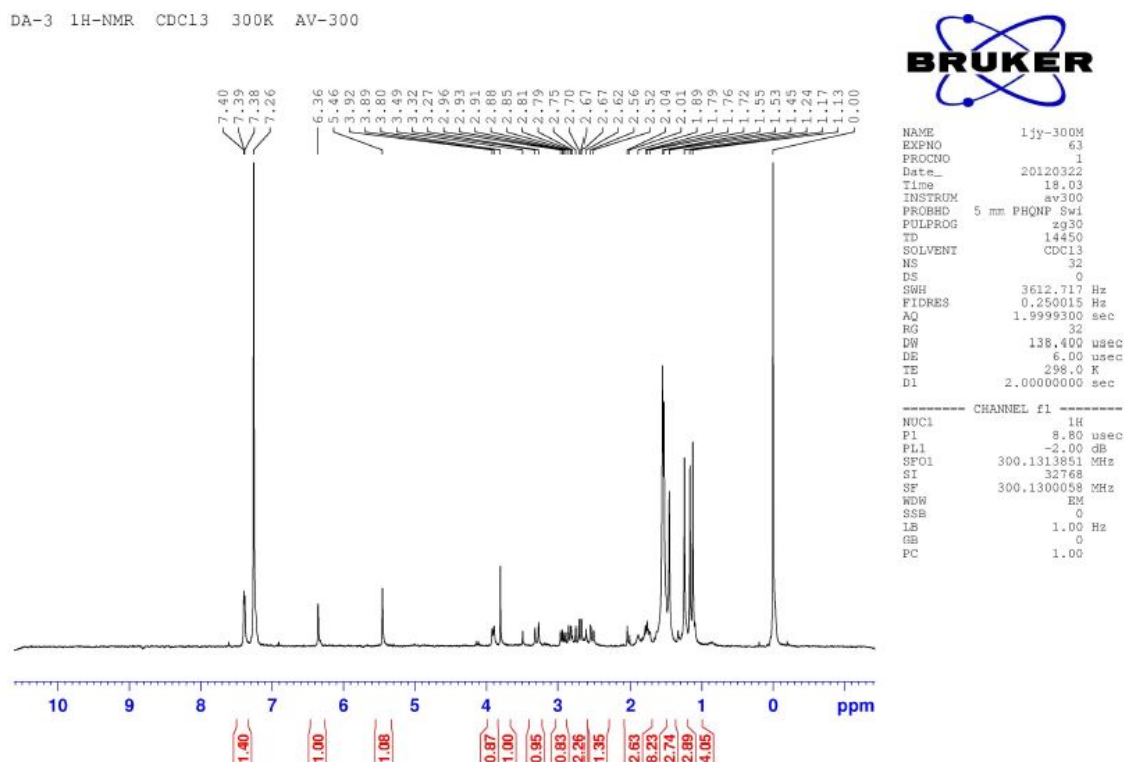
DA-35 1H-NMR, CDCL3 303K AV-300



S30. ^1H NMR spectrum of compound **8** (300 MHz, CDCl_3)



S31. ^1H NMR spectrum of compound **9** (500 MHz, CDCl_3)



S32. ^1H NMR spectrum of compound **10** (300 MHz, CDCl_3)