SUPPLEMENTARY MATERIAL

Unprecedented neoverrucosane and cyathane diterpenoids with anti-neuroinflammatory activity from cultures of the culinary-medicinal Mushroom *Hericium erinaceus*

Jing Wei[1,3], Jia-yao Li[2], Xi-long Feng[2], Yilin Zhang[1], Xuansheng Hu[1], Heping Hui[1], Xiaodong Xue[1], Jianzhao Qi[2]*

[1] College of Biology Pharmacy & Food Engineering, Shangluo University, Shangluo, Shaanxi, China
[2] Shaanxi Key Laboratory of Natural Products & Chemical Biology, College of Chemistry & Pharmacy, Northwest A&F University, 3 Taicheng Road, Yangling 712100, Shaanxi
[3] Qinba Mountains of Bio-Resource Collaborative Innovation Center of Southern Shaanxi Province, Hanzhong, Shaanxi, China
* Corresponding author: qjz@nwafu.edu.cn

Content

Figure S1. HRESIMS spectrum of compound 1. 1
Figure S2. ^{1}H NMR spectra of compound 1 in CD_3OD. 2
Figure S3. ^{13}C spectra of compound 1 in CD_3OD. 2
Figure S4. HSQC spectra of compound 1 in CD_3OD. 3
Figure S5. ^{1}H-^{1}H COSY spectra of compound 1 in CD_3OD. 3
Figure S6. HMBC spectra of compound 1 in CD_3OD. 4
Figure S7. NOESY spectra of compound 1 in CD_3OD. 4
Figure S8. IR spectra of compound 1. 5
Figure S9. UV spectra of compound 1. 5
Figure S10.HRESIMS spectrum of compound 2. 6
Figure S11. ^{1}H NMR spectra of compound 2 in $CDCl_3$. 7
Figure S12. ^{13}C NMR spectra of compound 2 in $CDCl_3$. 7
Figure S13. HSQC spectra of compound 2 in $CDCl_3$. 8
Figure S14. ^{1}H-^{1}H COSY spectra of compound 2 in $CDCl_3$. 8
Figure S15. HMBC spectra of compound 2 in $CDCl_3$. 9
Figure S16. NOESY spectra of compound 2 in $CDCl_3$. 9
Figure S17.IR spectrum of compound 2. 10
Figure S18.UV spectrum of compound 2. 10
Figure S19. ^{1}H NMR spectra of compound 3 in $CDCl_3$ 11
Figure S20. ^{13}C spectra of compound 3 in $CDCl_3$. 11
Figure S21.HRESI-MS spectrum of compound 3. 12
Figure S22. ^{1}H NMR spectra of compound 4 in $CDCl_3$ 13
Figure S23. ^{13}C spectra of compound 4 in $CDCl_3$. 13
Figure S24.HRESI-MS spectrum of compound 4. 14
Figure S25. ^{1}H NMR spectra of compound 5 in CD_3OD 15
Figure S26. ^{13}C spectra of compound 5 in CD_3OD. 15
Figure S27.HRESI-MS spectrum of compound 5. 16
Figure S28. ^{1}H NMR spectra of compound 6 in $CDCl_3$. 17
Figure S29. ^{13}C spectra of compound 6 in $CDCl_3$. 17
Figure S30. ESI-MS spectrum of compound 6. 18
Figure S31. ^{1}H NMR spectra of compound 7 in CD_3OD. 19
Figure S32. ^{13}C spectra of compound 7 in CD_3OD. 19
Figure S33. ESI-MS spectrum of compound 7. 20
Figure S34. ^{1}H NMR spectra of compound 8 in $CDCl_3$. 21
Figure S35. ^{13}C spectra of compound 8 in $CDCl_3$. 21
Figure S36. ESI-MS spectrum of compound 8. 22
Figure S37. ^{1}H NMR spectra of compound 9 in $CDCl_3$. 23
Figure S38. ^{13}C spectra of compound 9 in $CDCl_3$. 23
Figure S39.HRESI-MS spectrum of compound 9. 24
Figure S40. ^{1}H NMR spectra of compound 10 in CD_3OD. 25
Figure S41. ^{13}C spectra of compound 10 in CD_3OD. 25
Figure S42.ESI-MS spectrum of compound 10. 26

Figure S43. ^{1}H NMR spectra of compound 11 in CD_3OD. 27
Figure S44. ^{13}C spectra of compound 11 in CD_3OD......27
Figure S45.ESI-MS spectrum of compound 11. 28
Figure S46. ^{1}H NMR spectra of compound 12 in CD_3OD. 29
Figure S47. ^{13}C spectra of compound 12 in CD_3OD......29
Figure S48.ESI-MS spectrum of compound 12. 30
Figure S49. ^{1}H NMR spectra of compound 13 in CD_3OD. 31
Figure S50. ^{13}C spectra of compound 13 in CD_3OD......31
Figure S51.HRESI-MS spectrum of compound 13. 32
Figure S52.Region of protein instability identified by RMSF analysis......32
Table S1. IC_{50} data of 1-9 inhibited the LPS-induced NO production in culture medium. 33

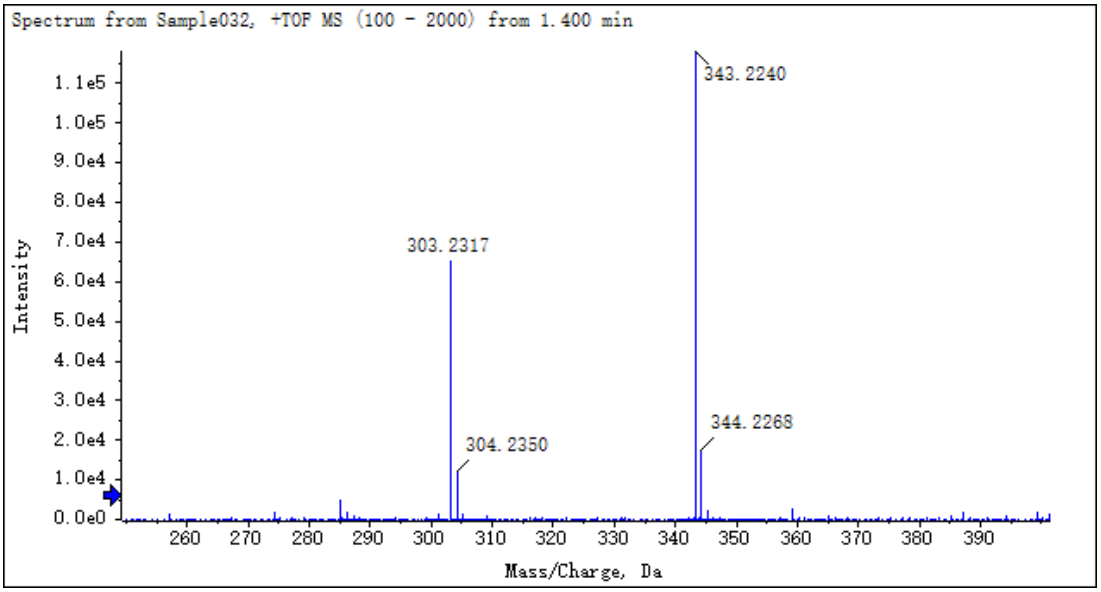


Figure S1. HRESIMS spectrum of compound 1.

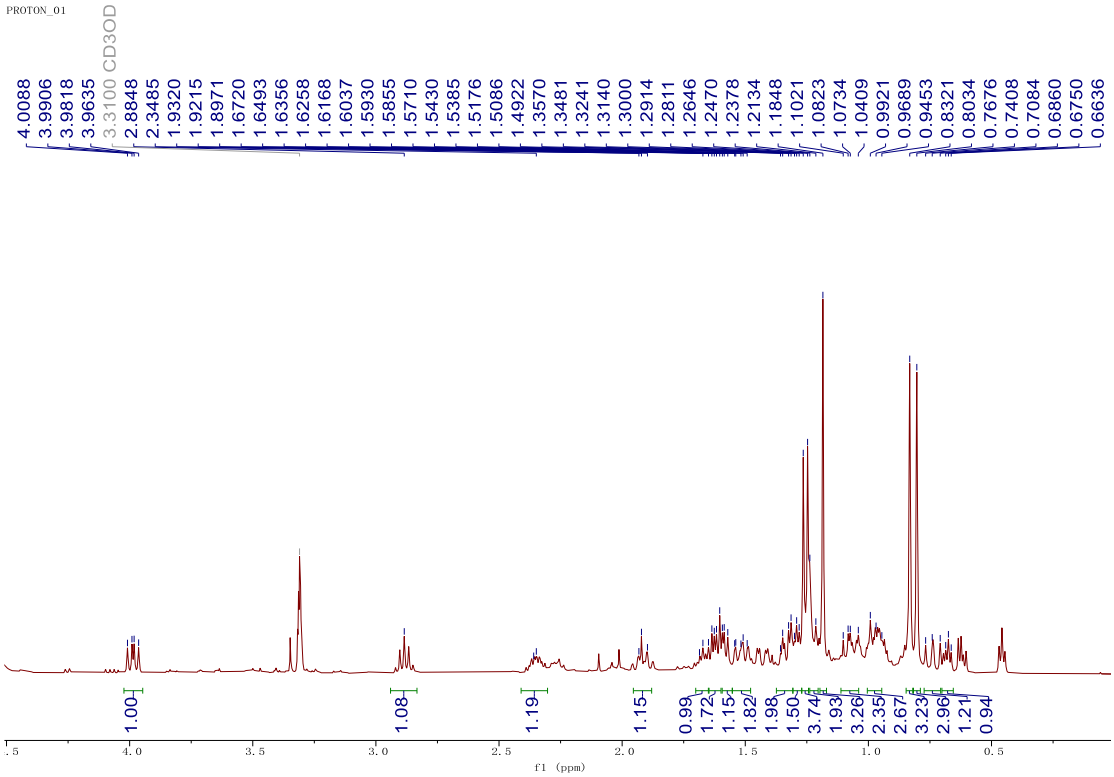
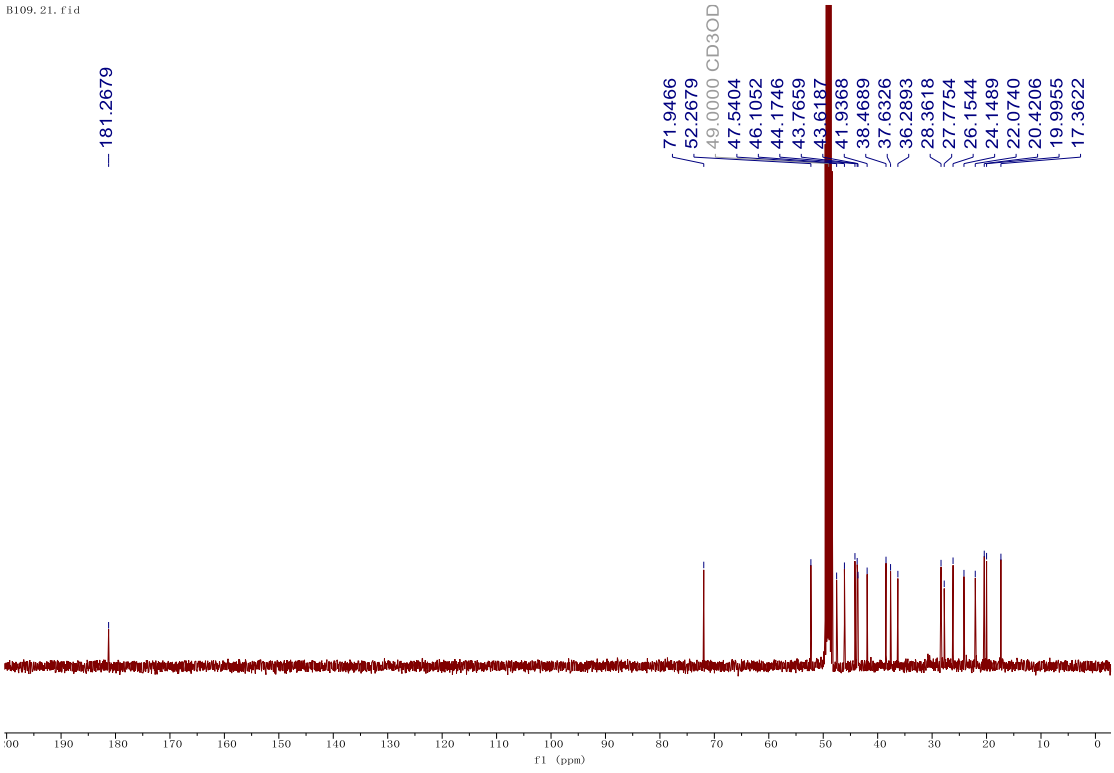


Figure S2. ^{1}H NMR spectra of compound 1 in CD_3OD.



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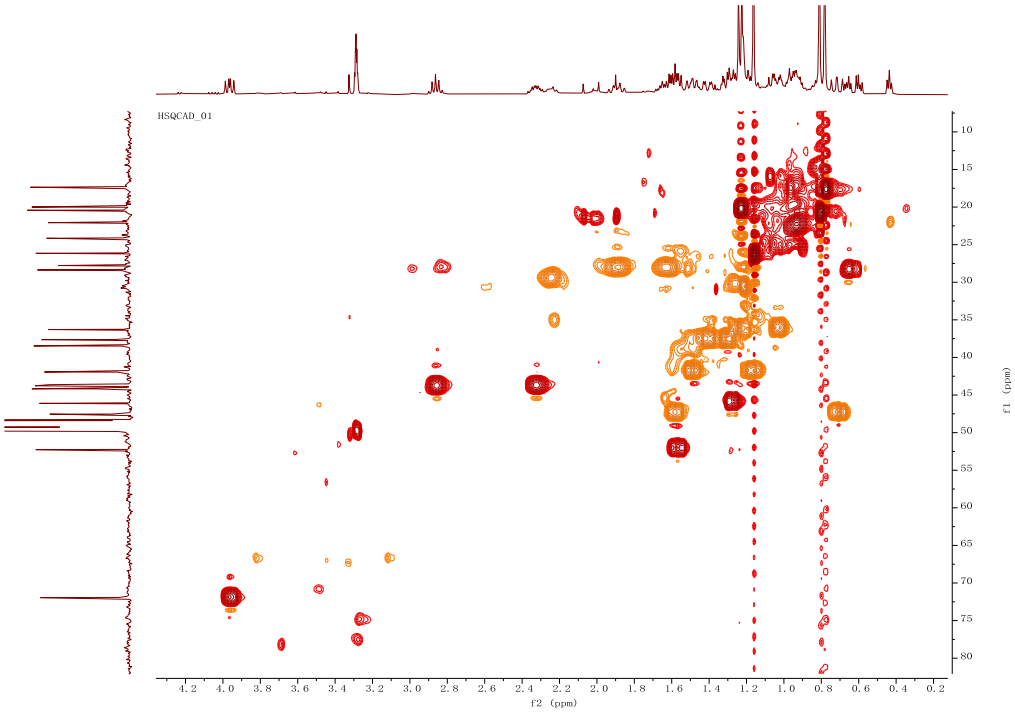


Figure S4. HSQC spectra of compound 1 in CD_3OD.

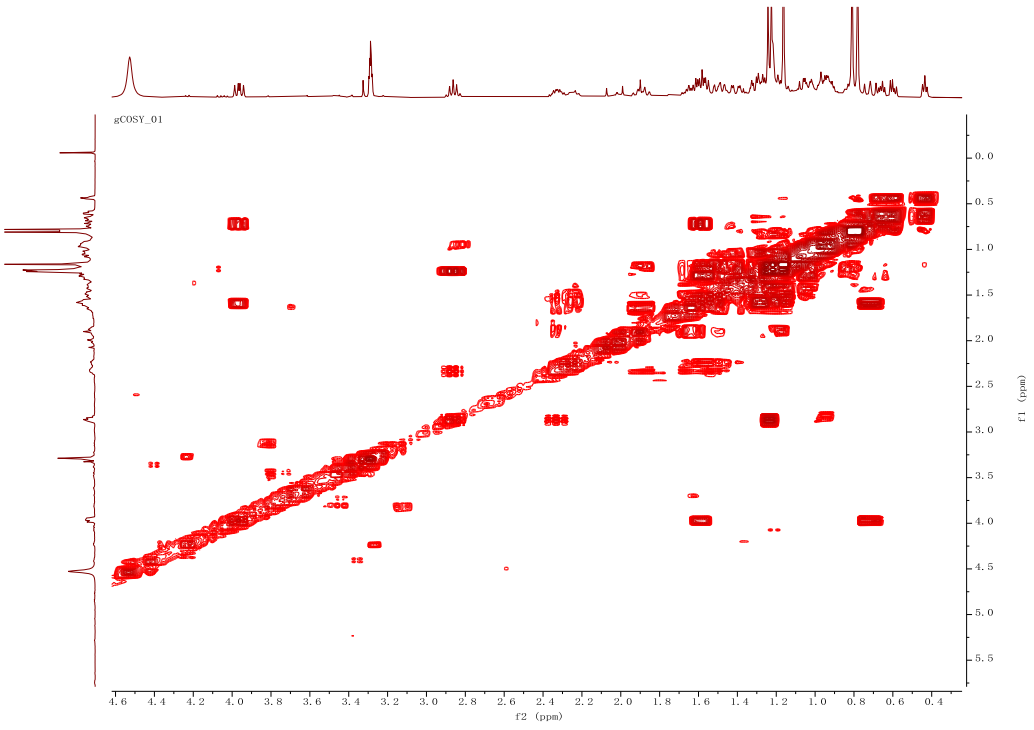
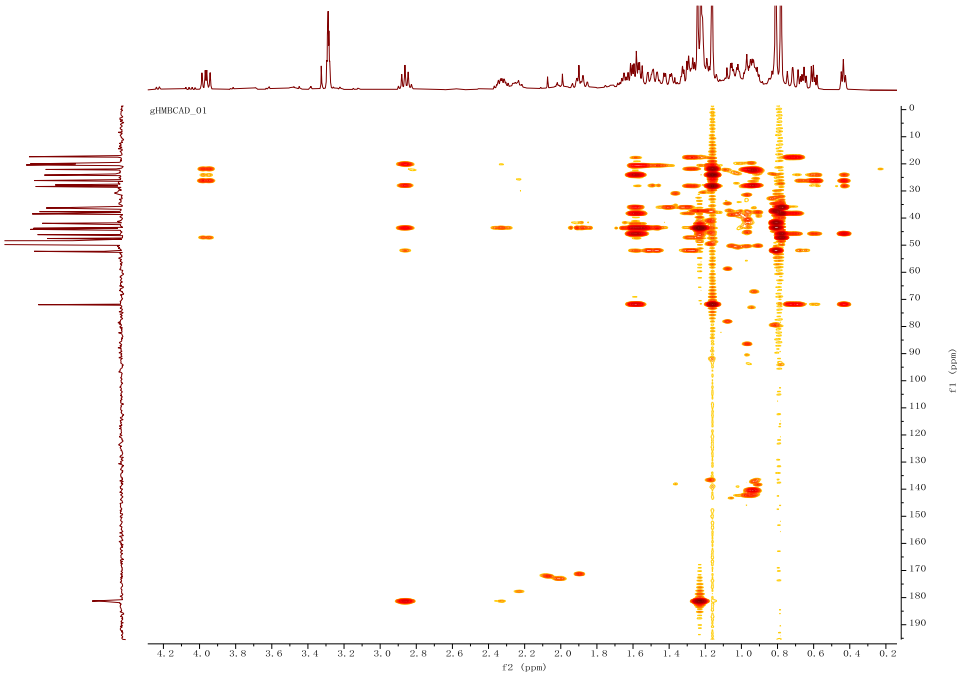


Figure S5. ^1H-^1H COSY spectra of compound 1 in CD_3OD.



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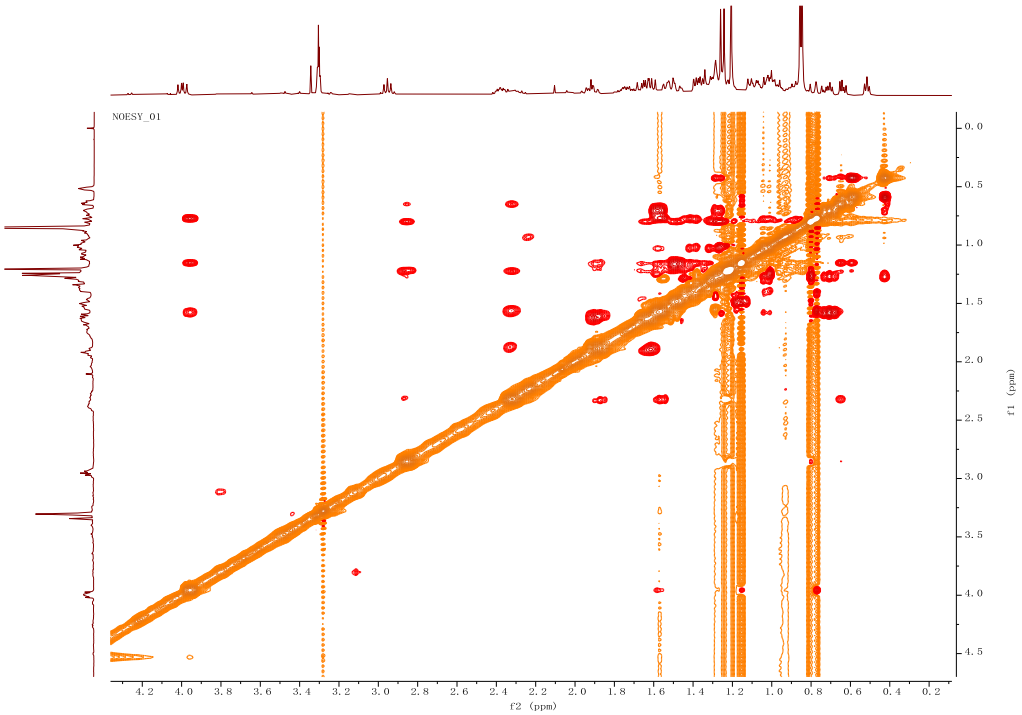

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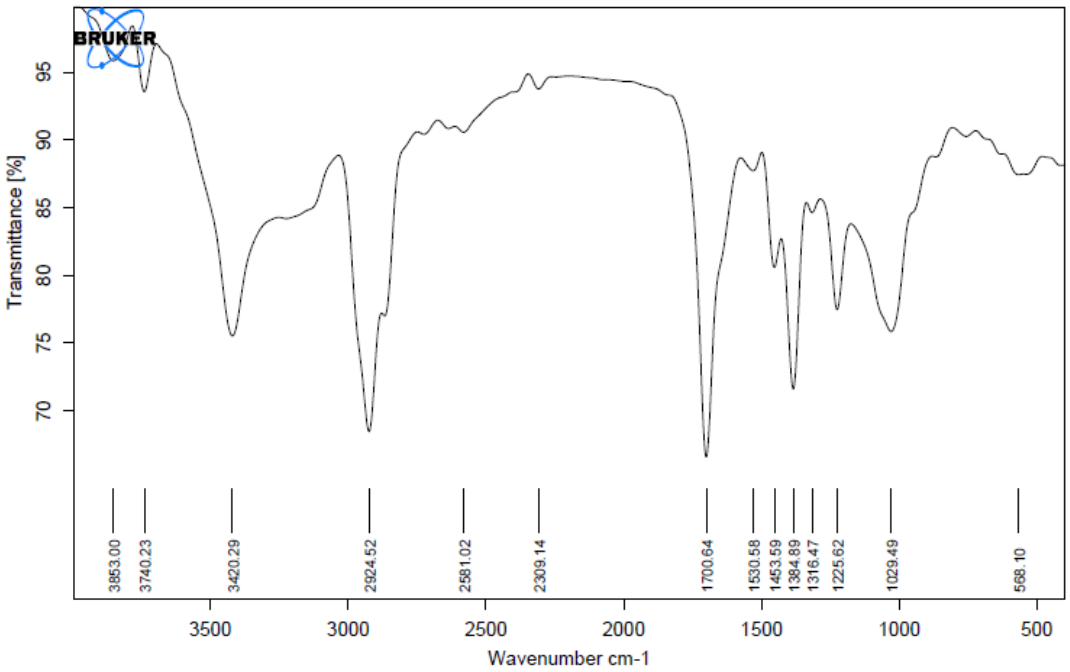

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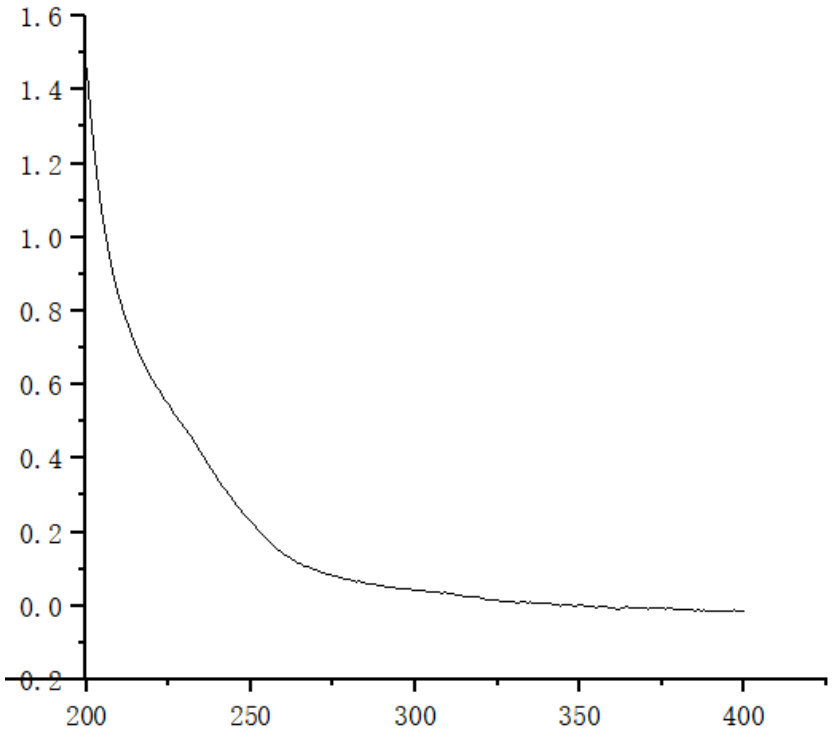

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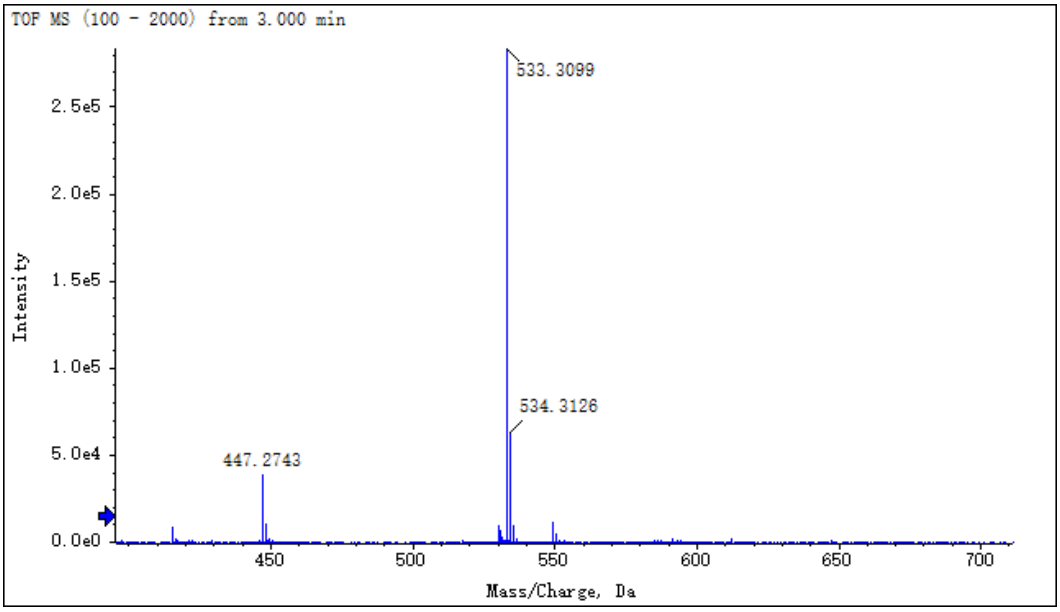


Figure S10.HRESIMS spectrum of compound 2.

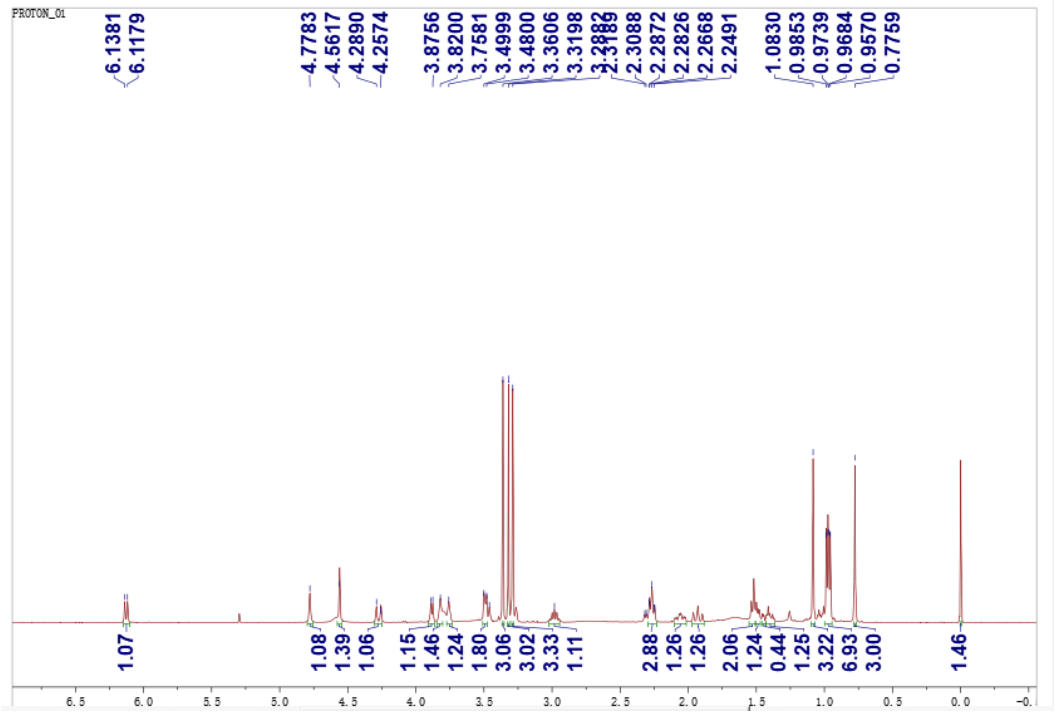


Figure S11. ^{1}H NMR spectra of compound 2 in $CDCl_3$.

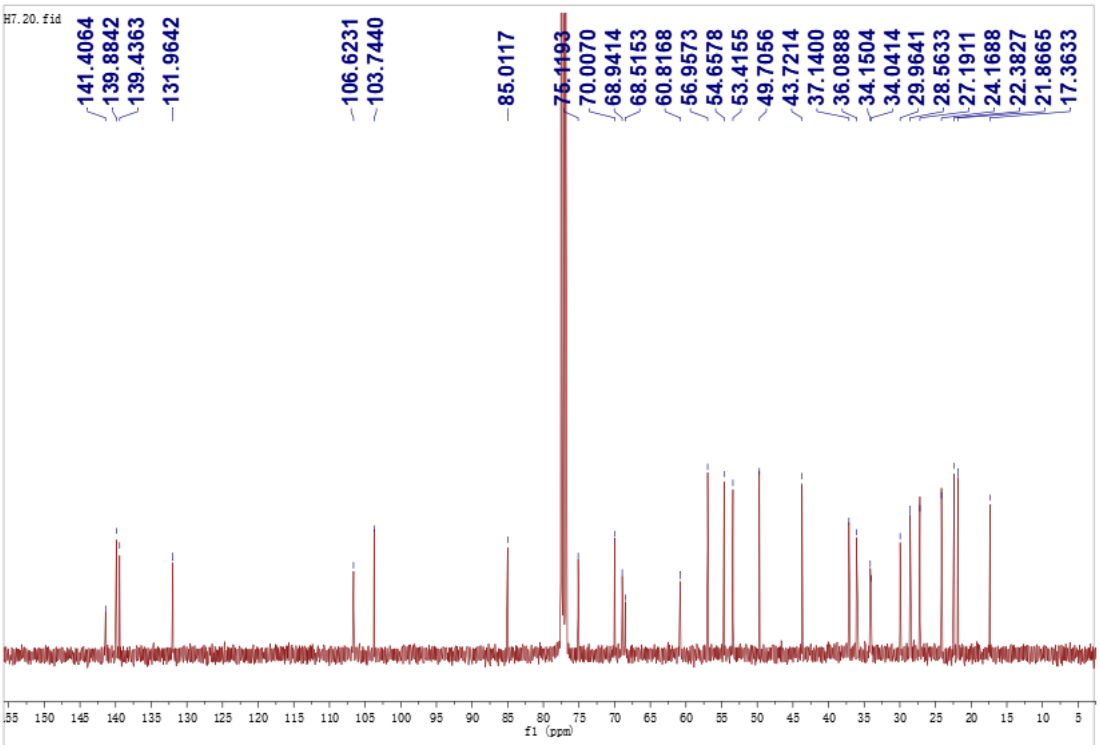


Figure S12. ^{13}C NMR spectra of compound 2 in $CDCl_3$.

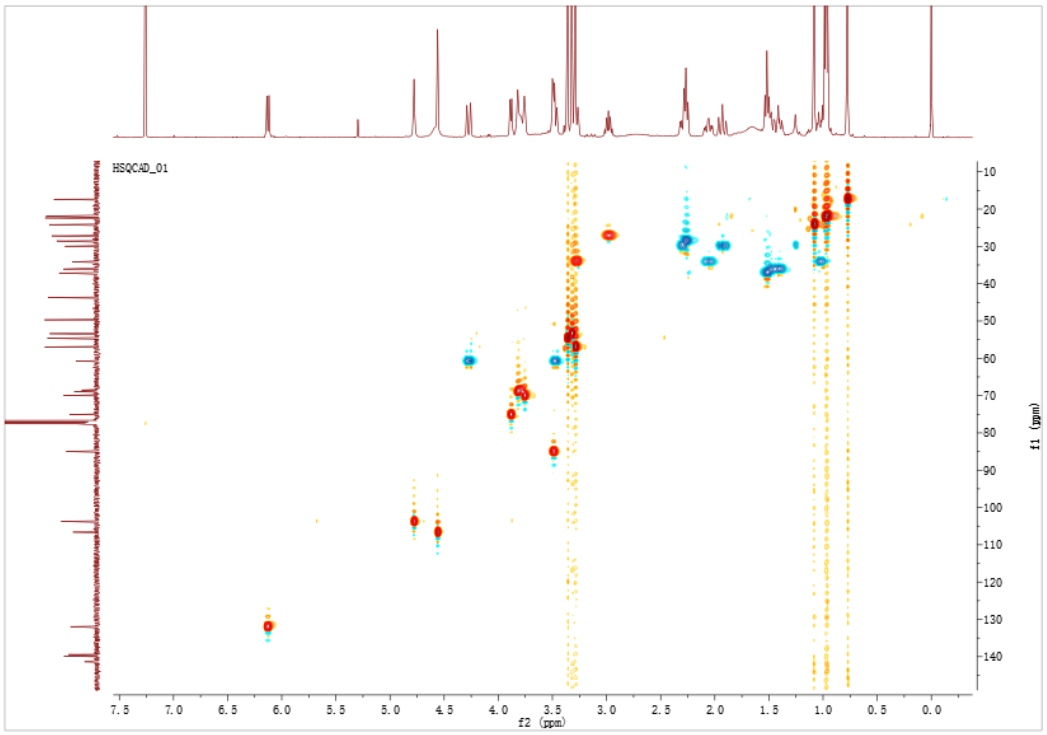
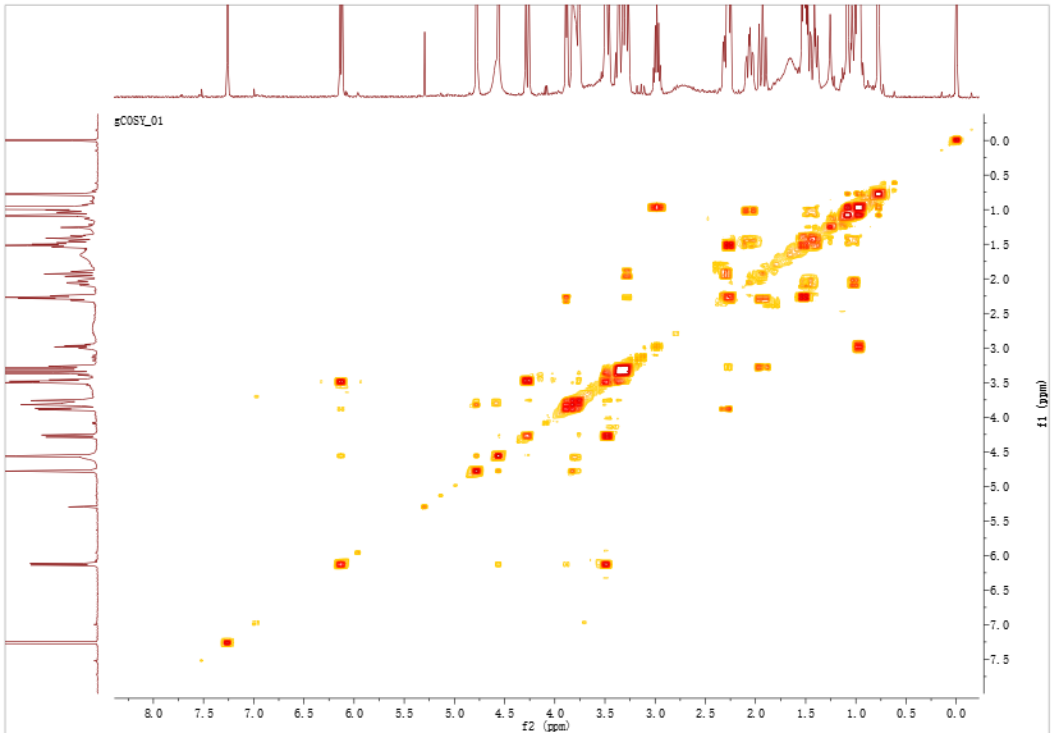


Figure S13. HSQC spectra of compound 2 in $CDCl_3$.



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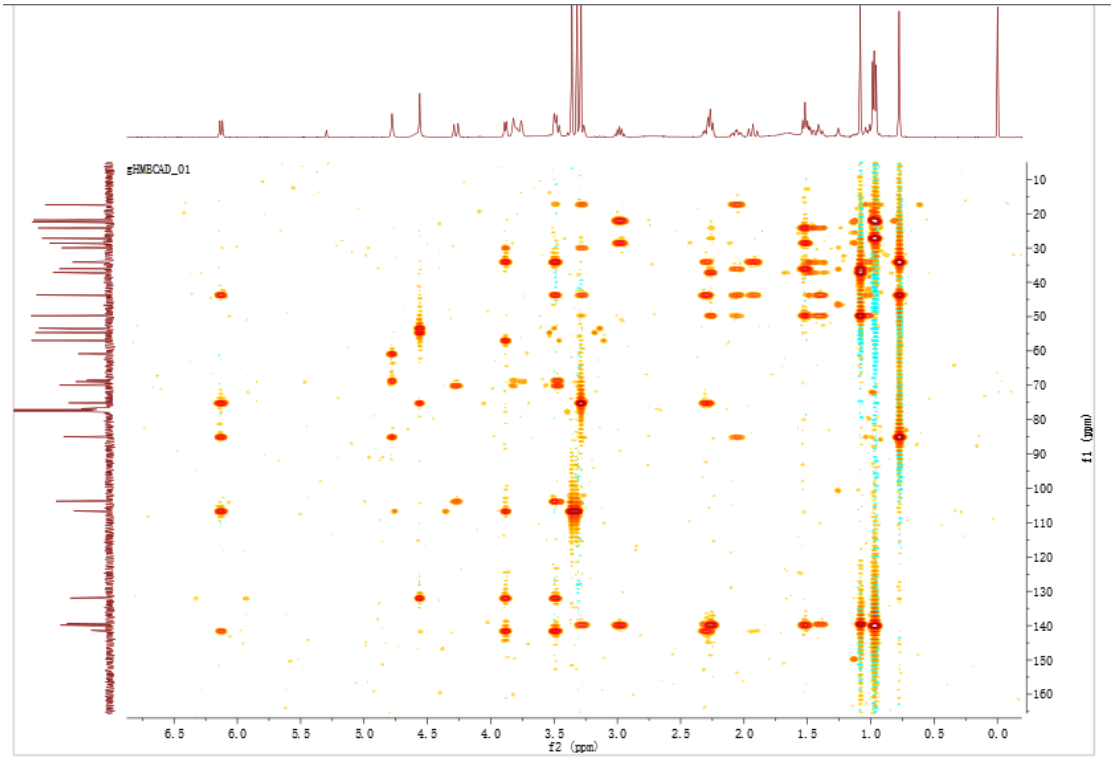

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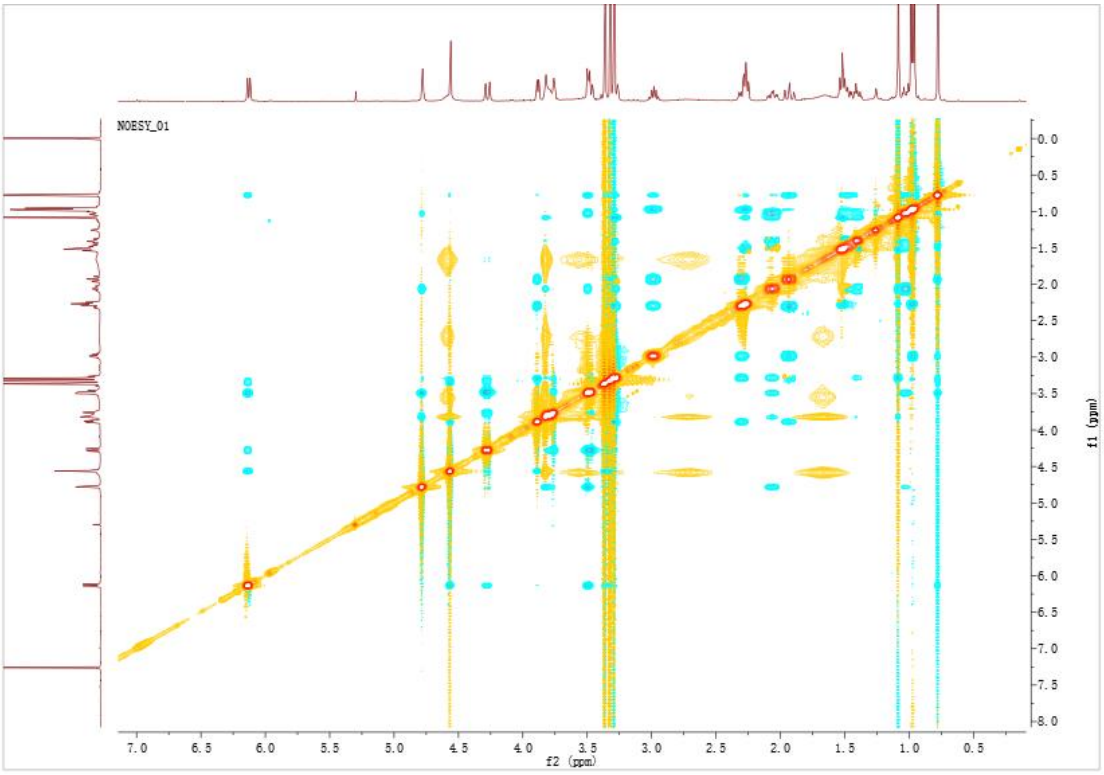
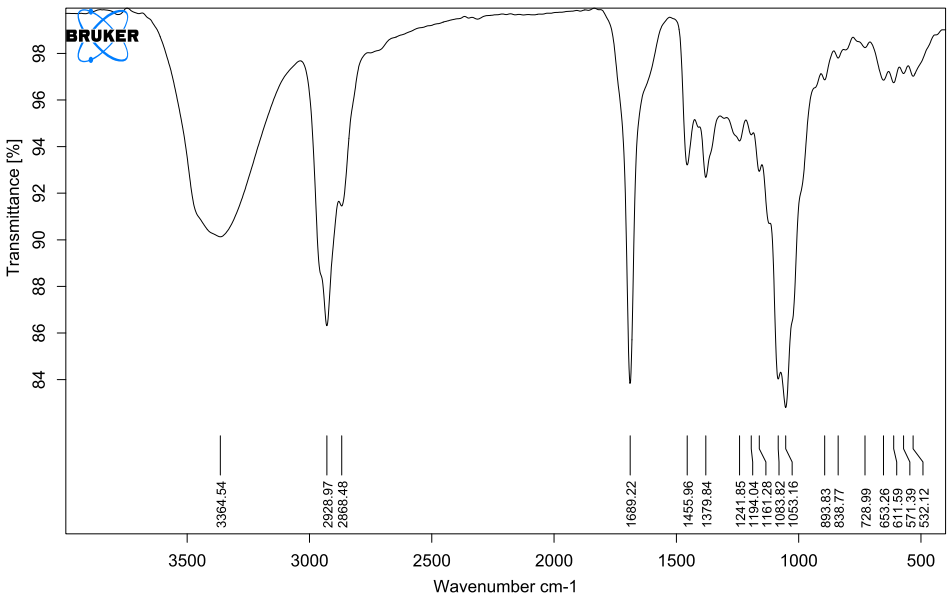


Figure S16. NOESY spectra of compound 2 in $CDCl_3$.



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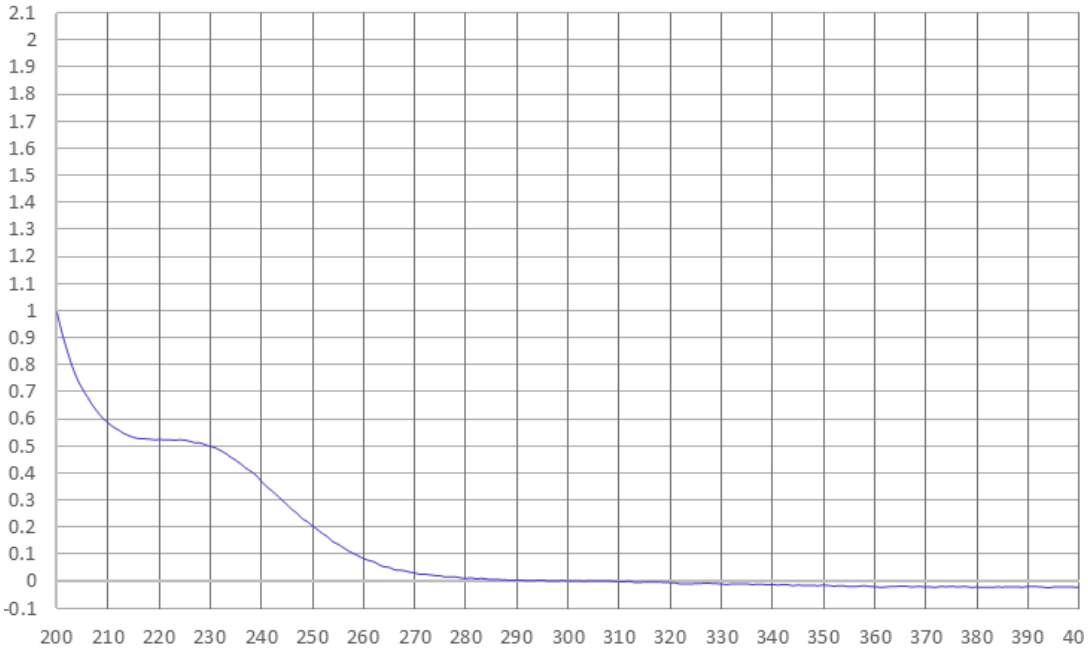

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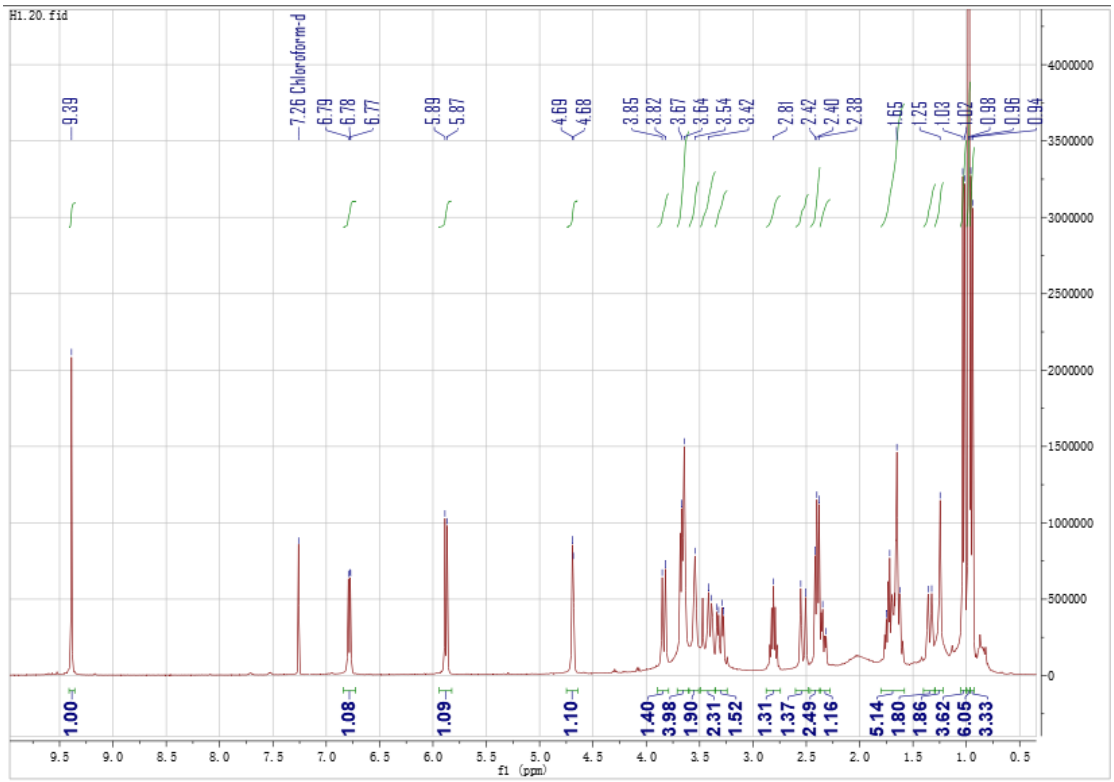


Figure S19. ^{1}H NMR spectra of compound 3 in $CDCl_3$

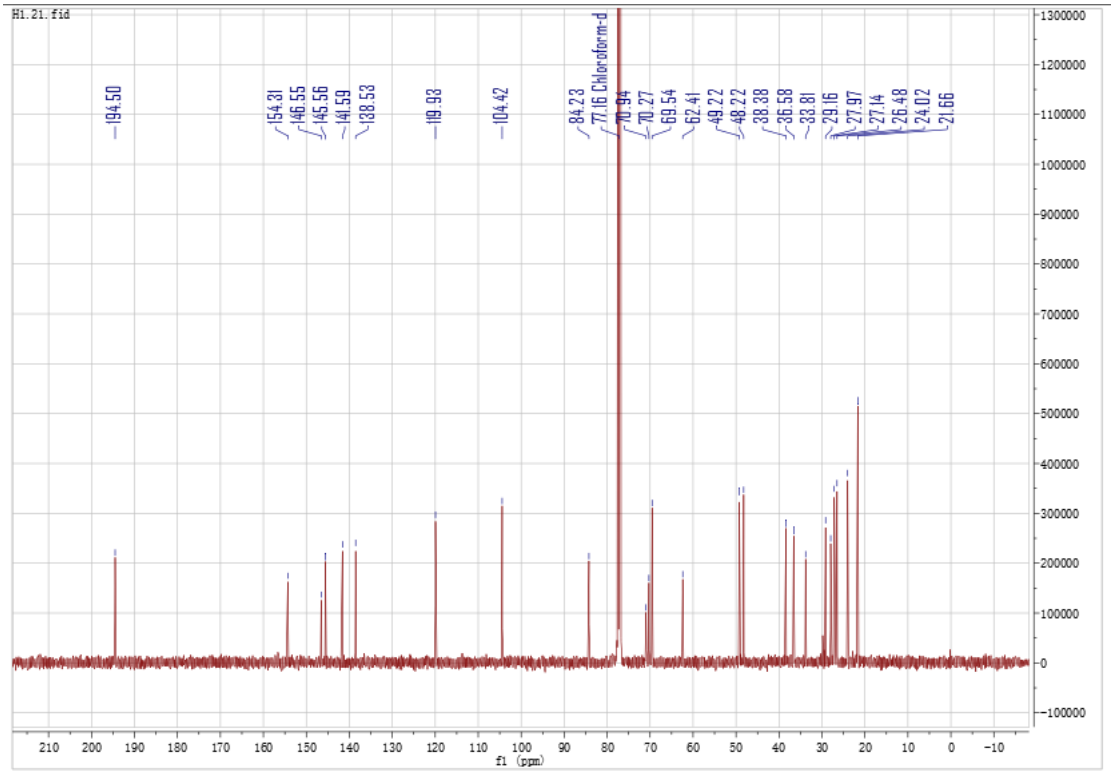


Figure S20. ^{13}C spectra of compound 3 in $CDCl_3$.

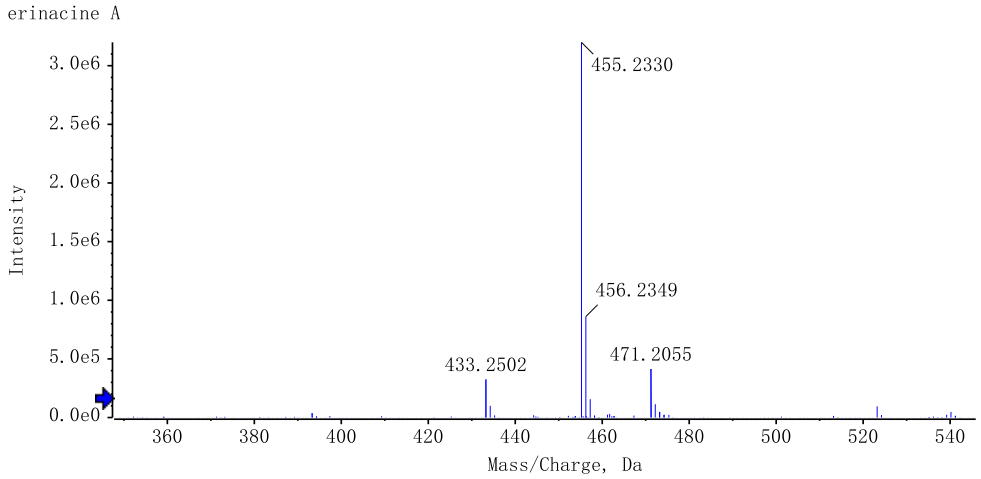


Figure S21.HRESI-MS spectrum of compound 3.

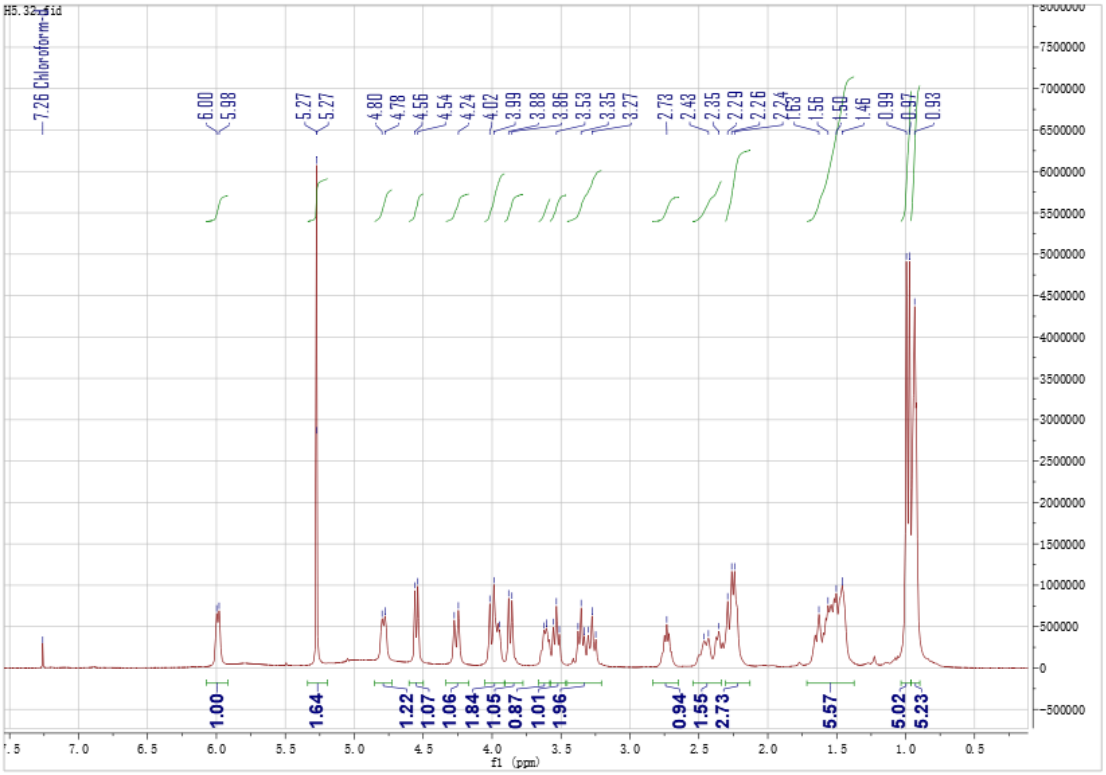


Figure S22. ^{1}H NMR spectra of compound 4 in $CDCl_3$

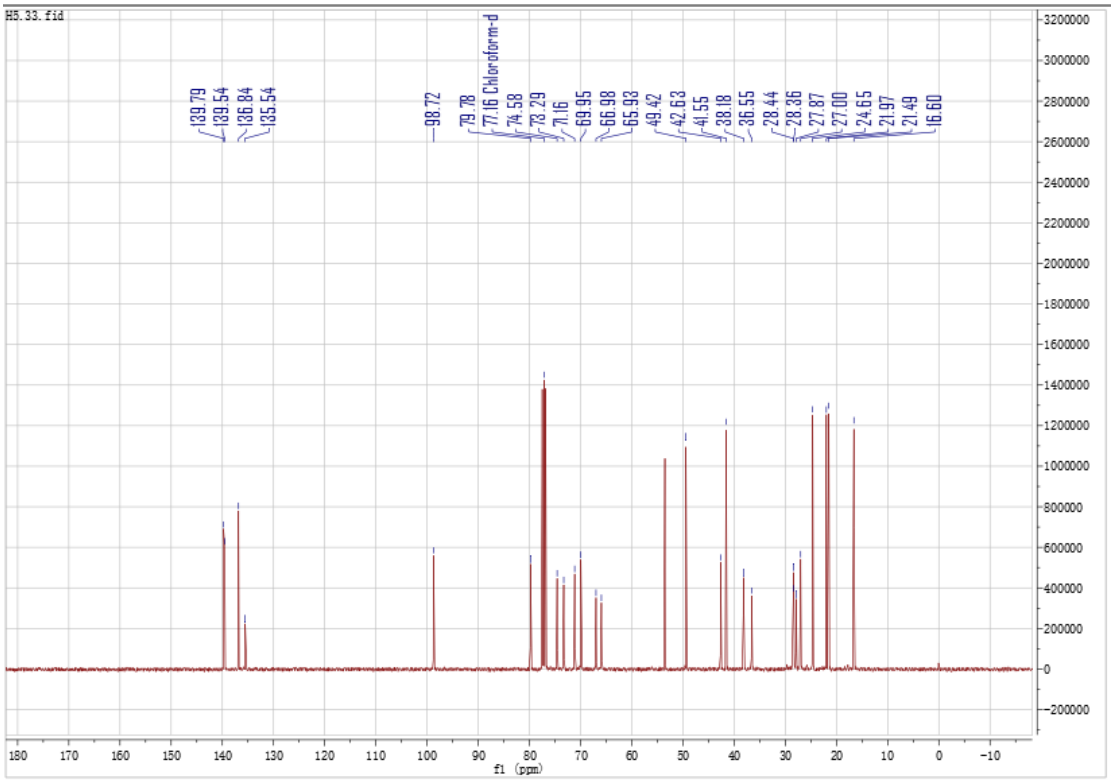


Figure S23. ^{13}C spectra of compound 4 in $CDCl_3$.

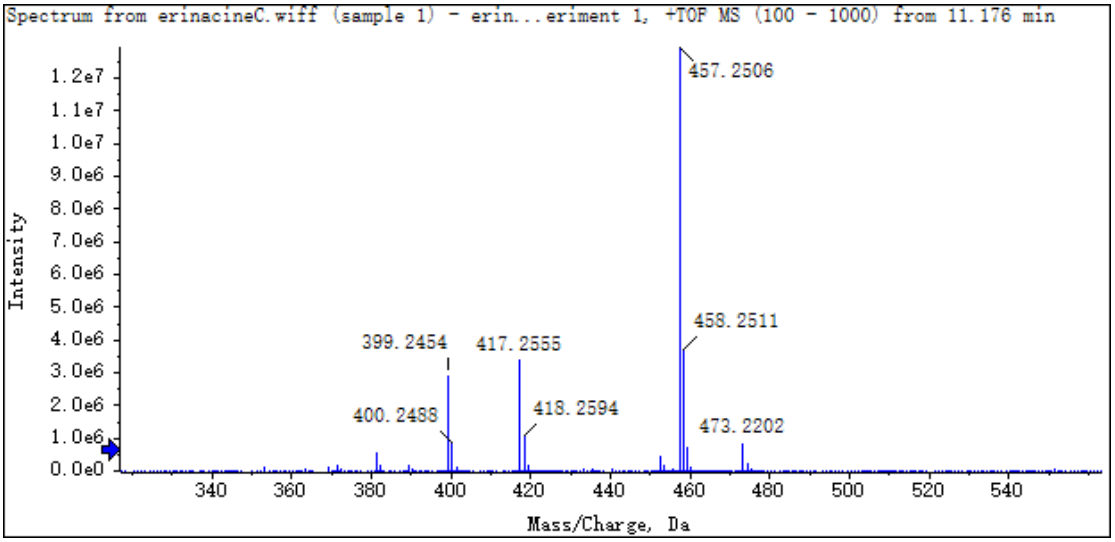


Figure S24.HRESI-MS spectrum of compound 4.

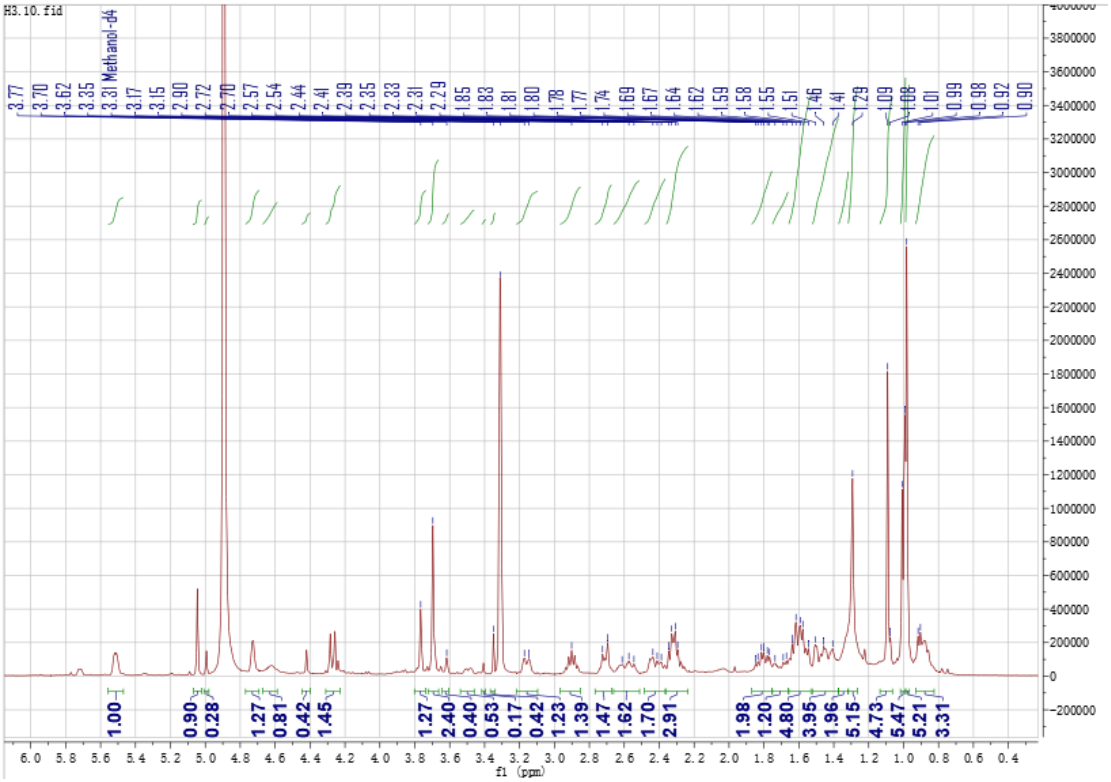


Figure S25. ^{1}H NMR spectra of compound 5 in CD_3OD

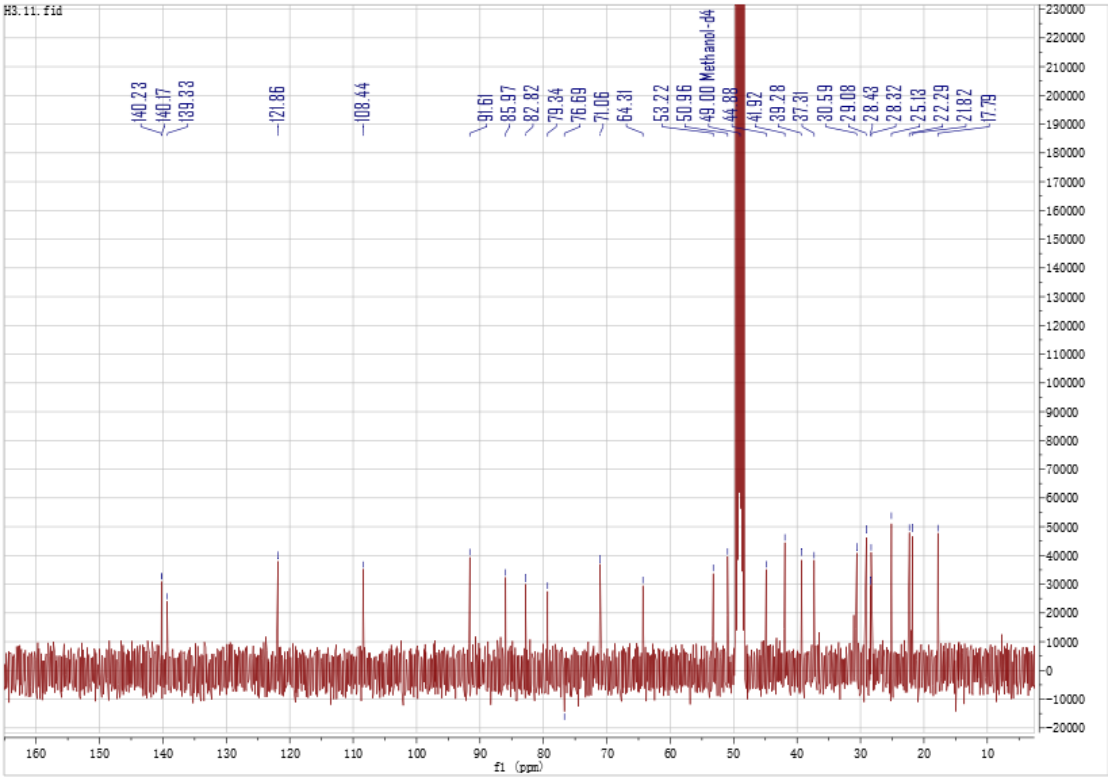


Figure S26. ^{13}C spectra of compound 5 in CD_3OD.

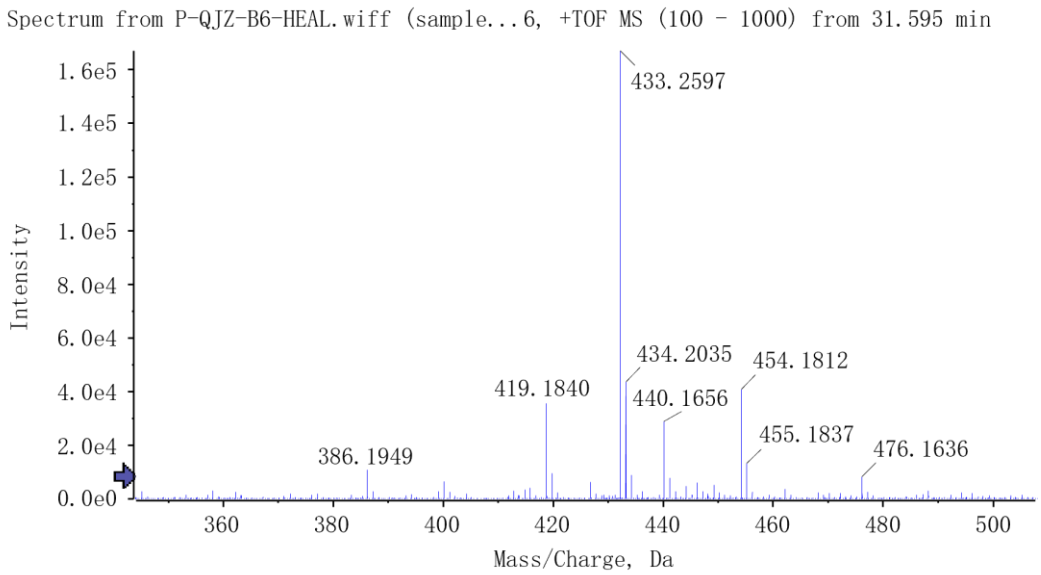


Figure S27.HRESI-MS spectrum of compound 5.

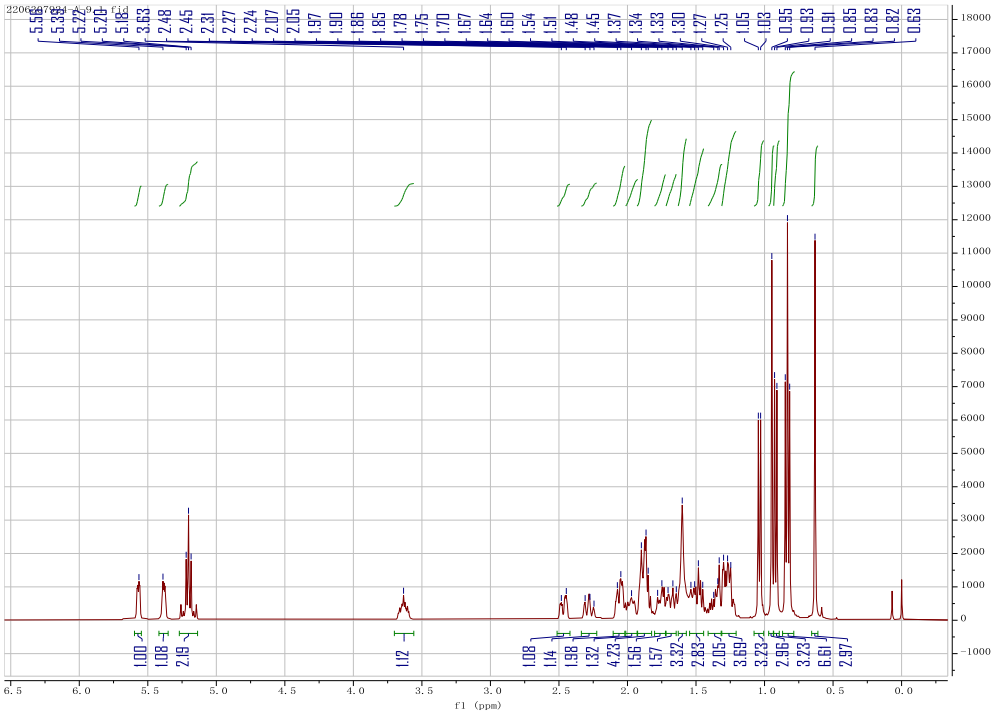


Figure S28. ^{1}H NMR spectra of compound 6 in $CDCl_3$.

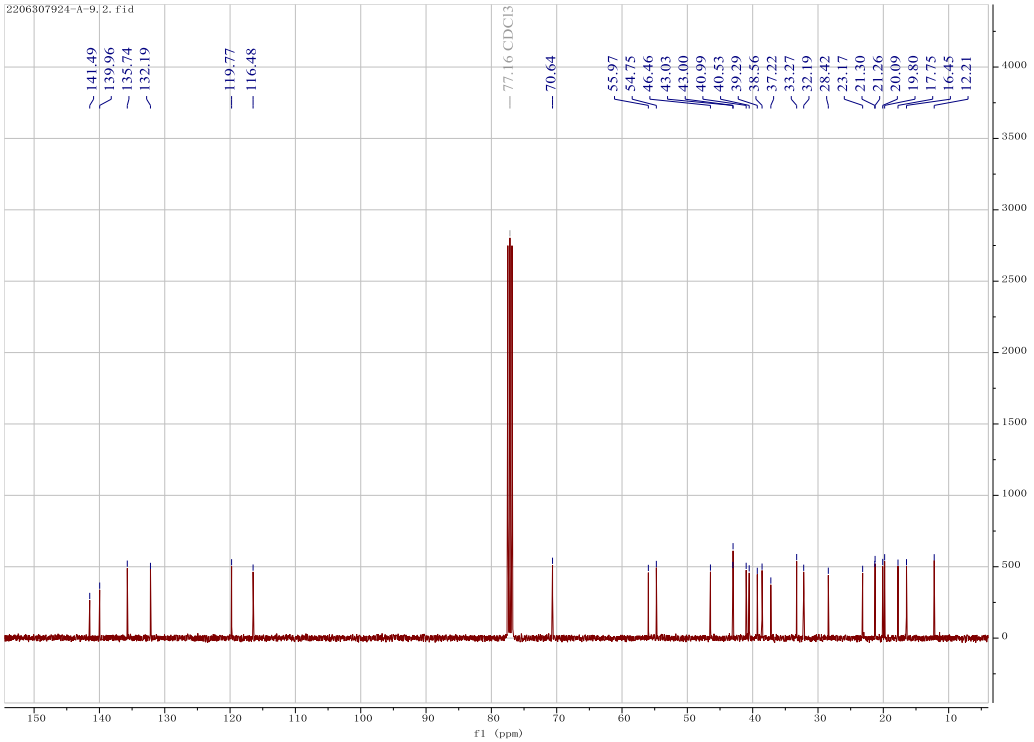


Figure S29. ^{13}C spectra of compound 6 in $CDCl_3$.

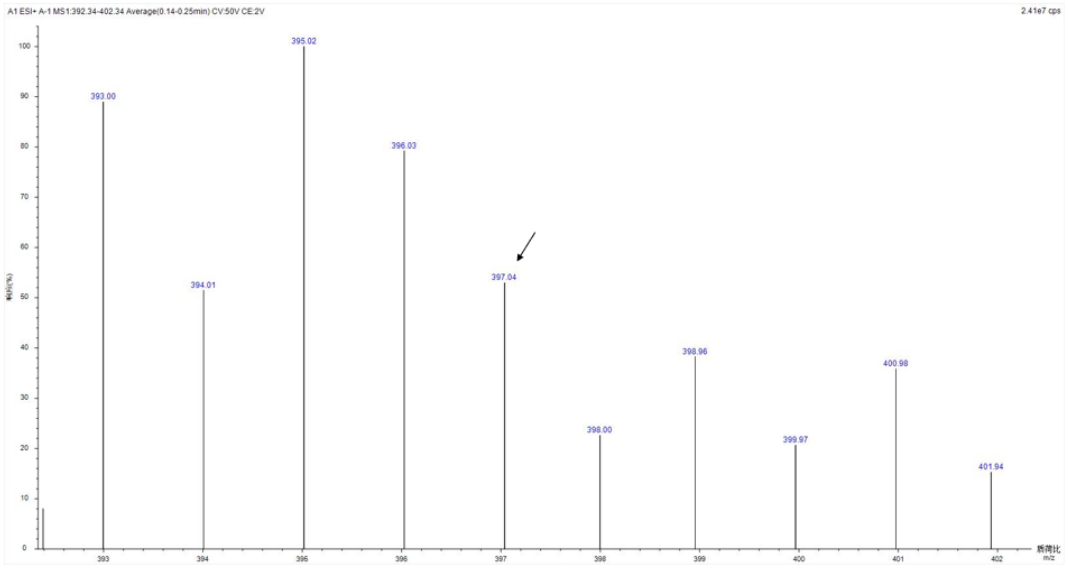


Figure S30. ESI-MS spectrum of compound 6.

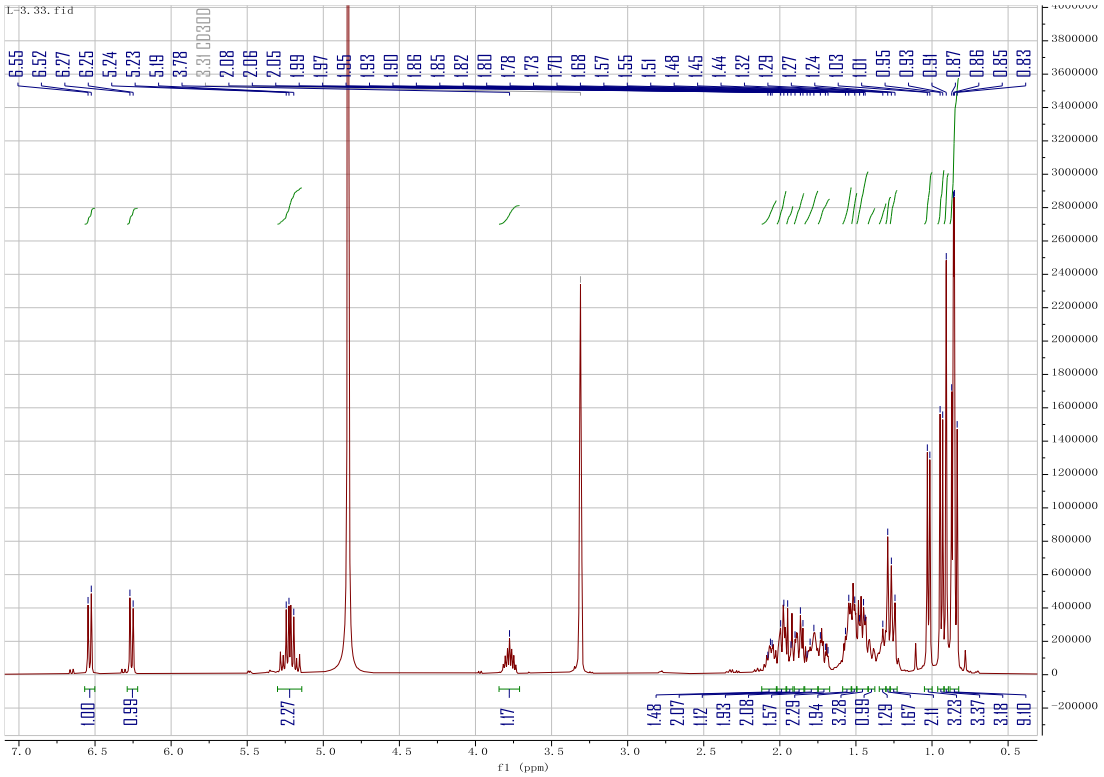
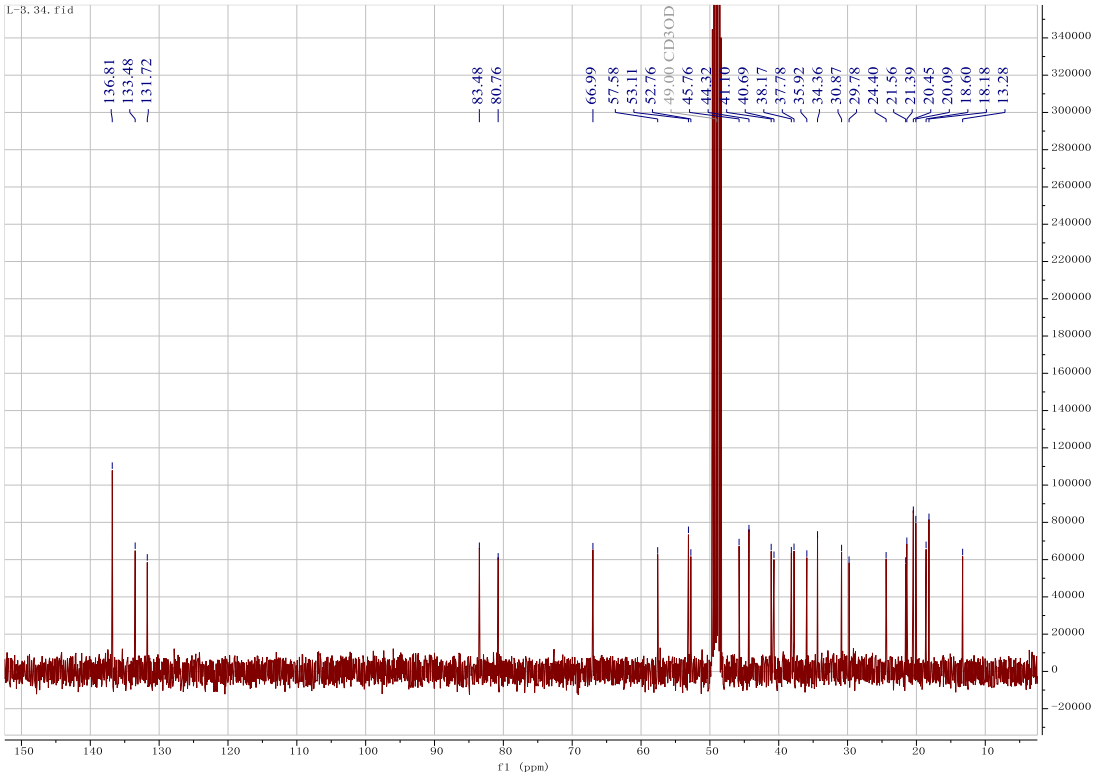


Figure S31. ^{1}H NMR spectra of compound 7 in CD_3OD.



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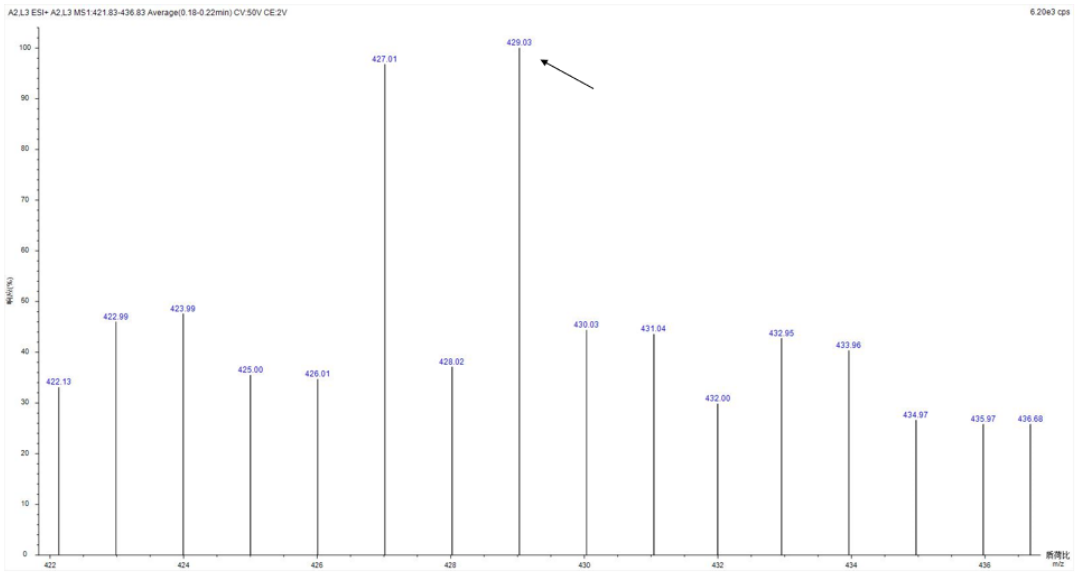


Figure S33. ESI-MS spectrum of compound 7.

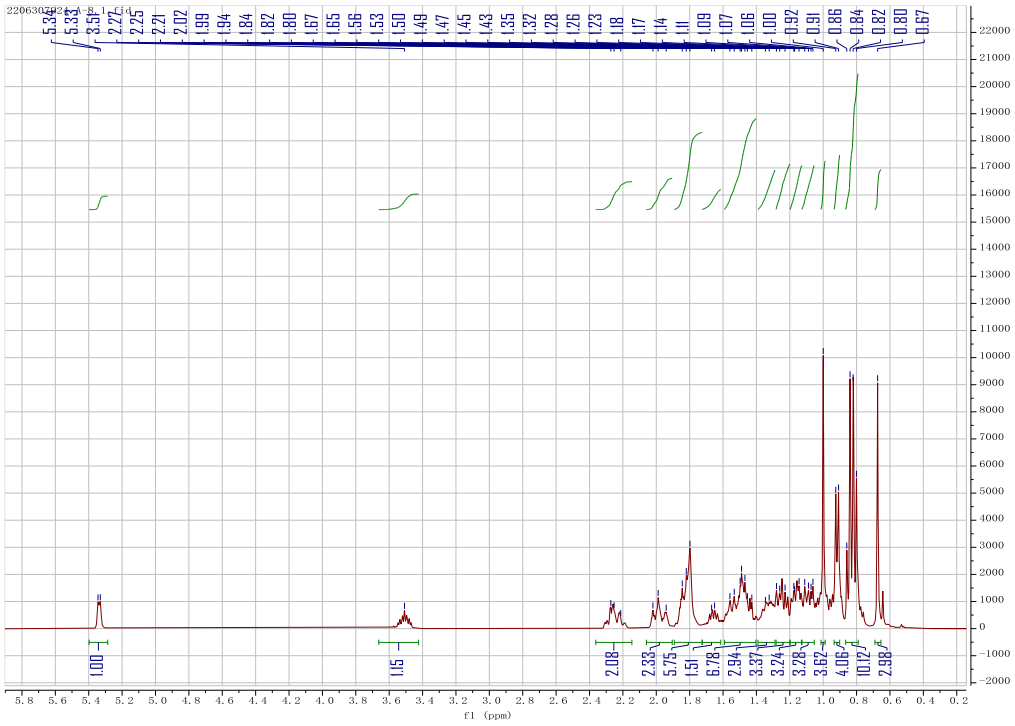


Figure S34. ^{1}H NMR spectra of compound 8 in $CDCl_3$.

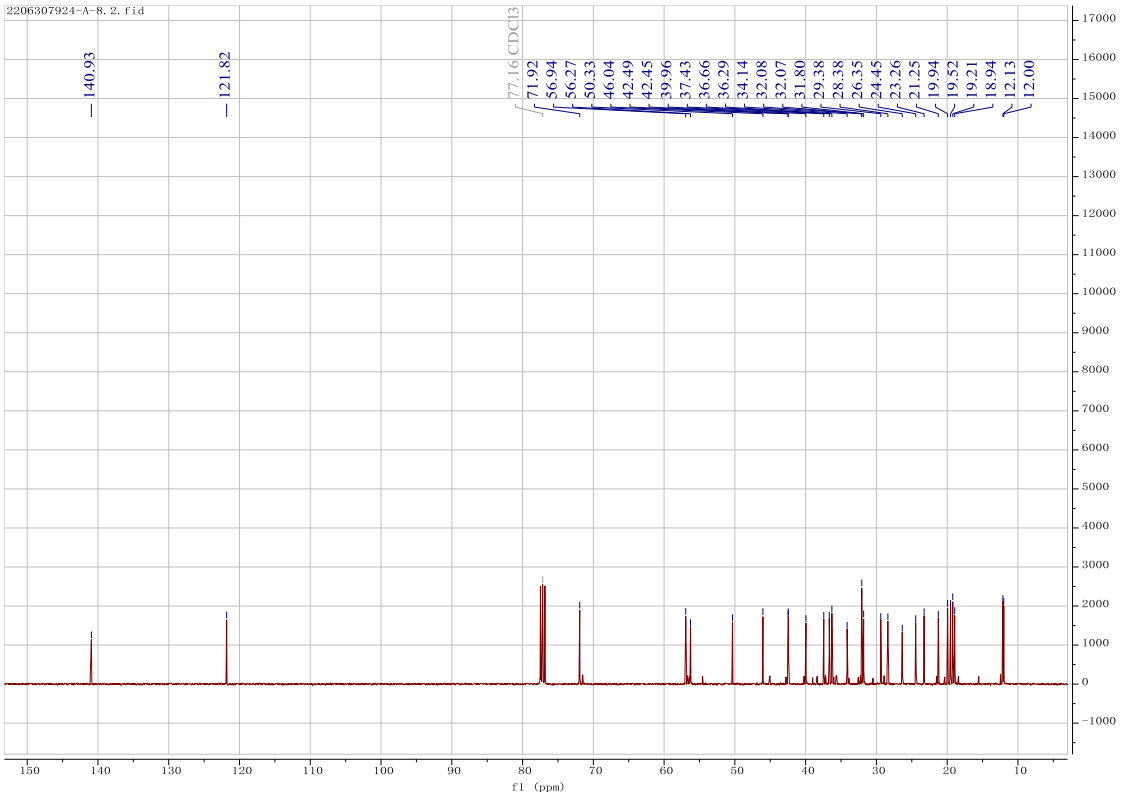
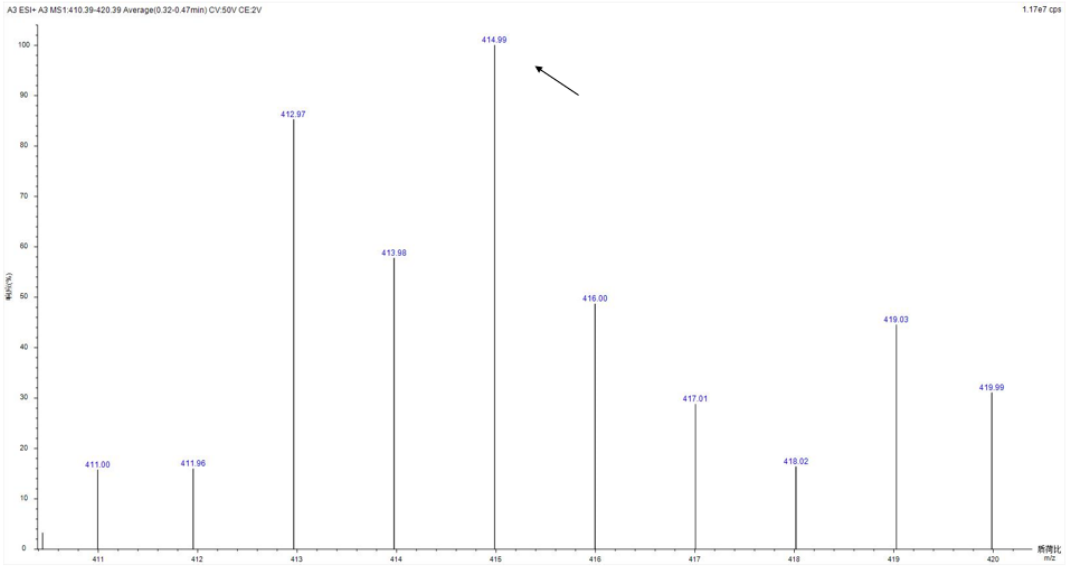


Figure S35. ^{13}C spectra of compound 8 in $CDCl_3$.



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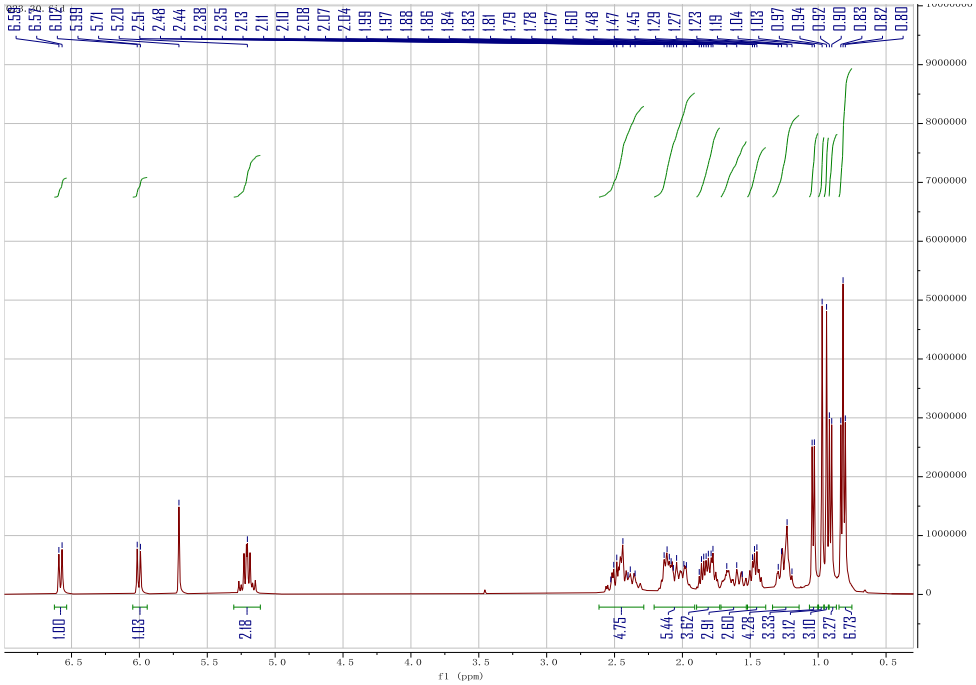


Figure S37. ^{1}H NMR spectra of compound 9 in $CDCl_3$.

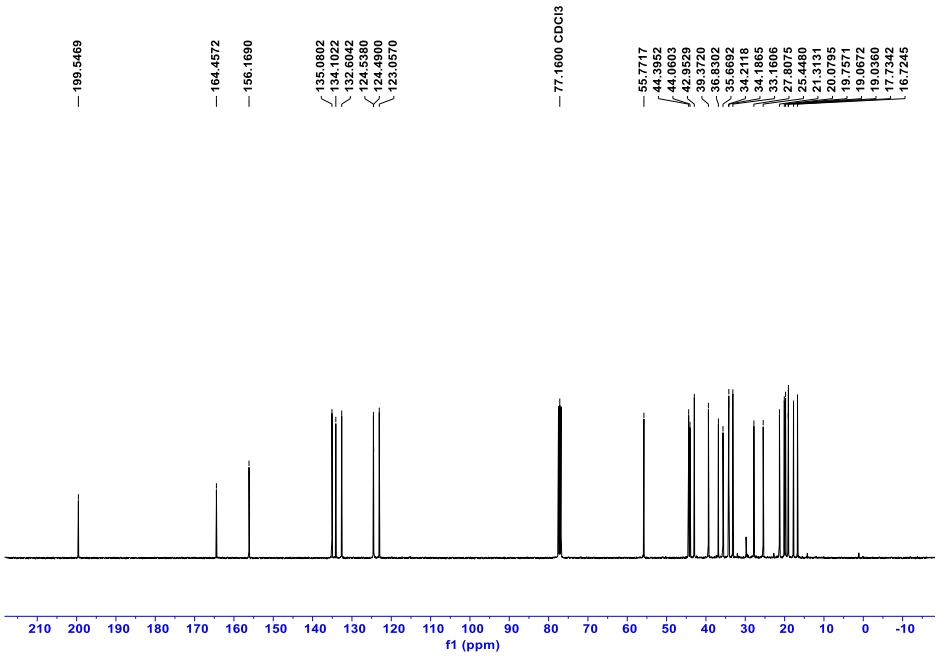


Figure S38. ^{13}C spectra of compound 9 in $CDCl_3$.

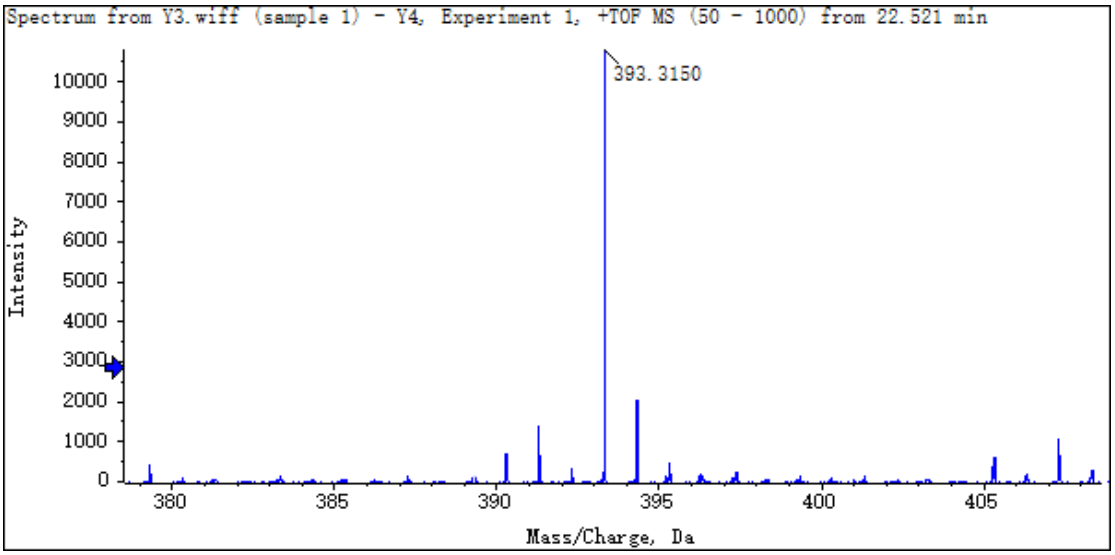


Figure S39.HRESI-MS spectrum of compound 9.

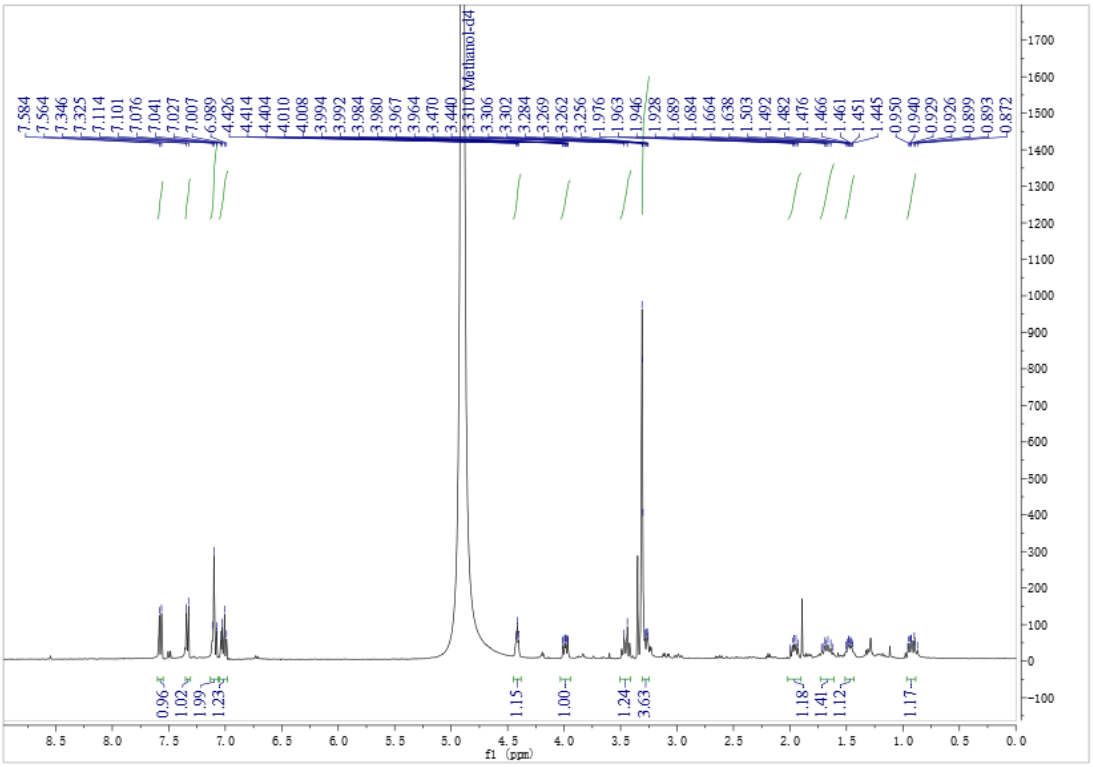
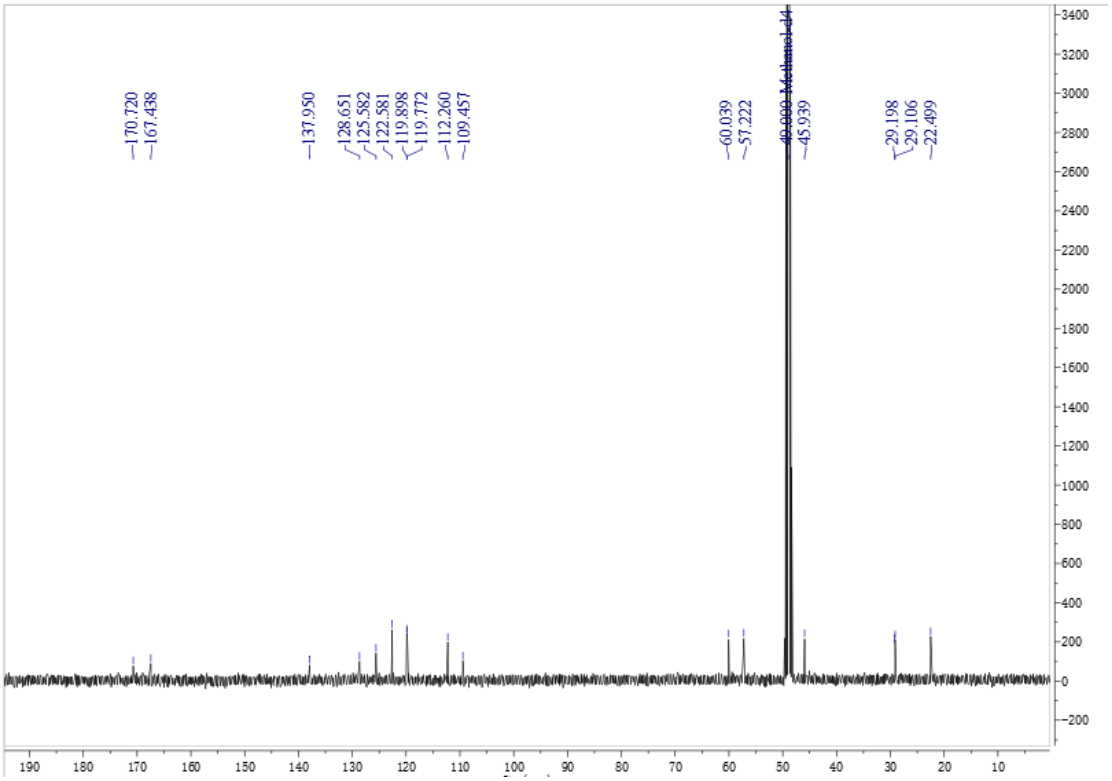


Figure S40. ^{1}H NMR spectra of compound 10 in CD_3OD.



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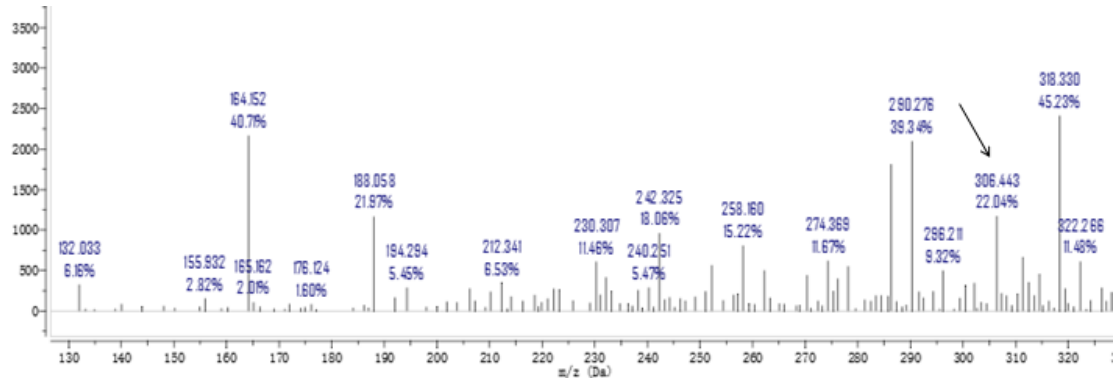


Figure S42.ESI-MS spectrum of compound 10.

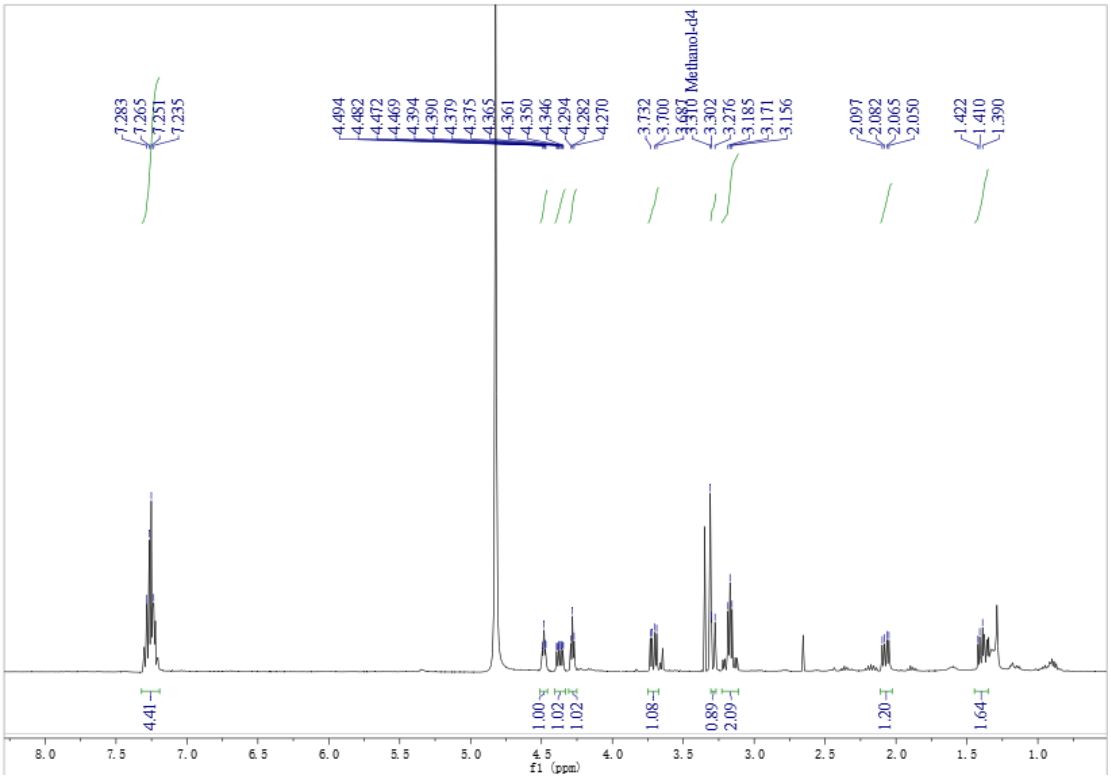
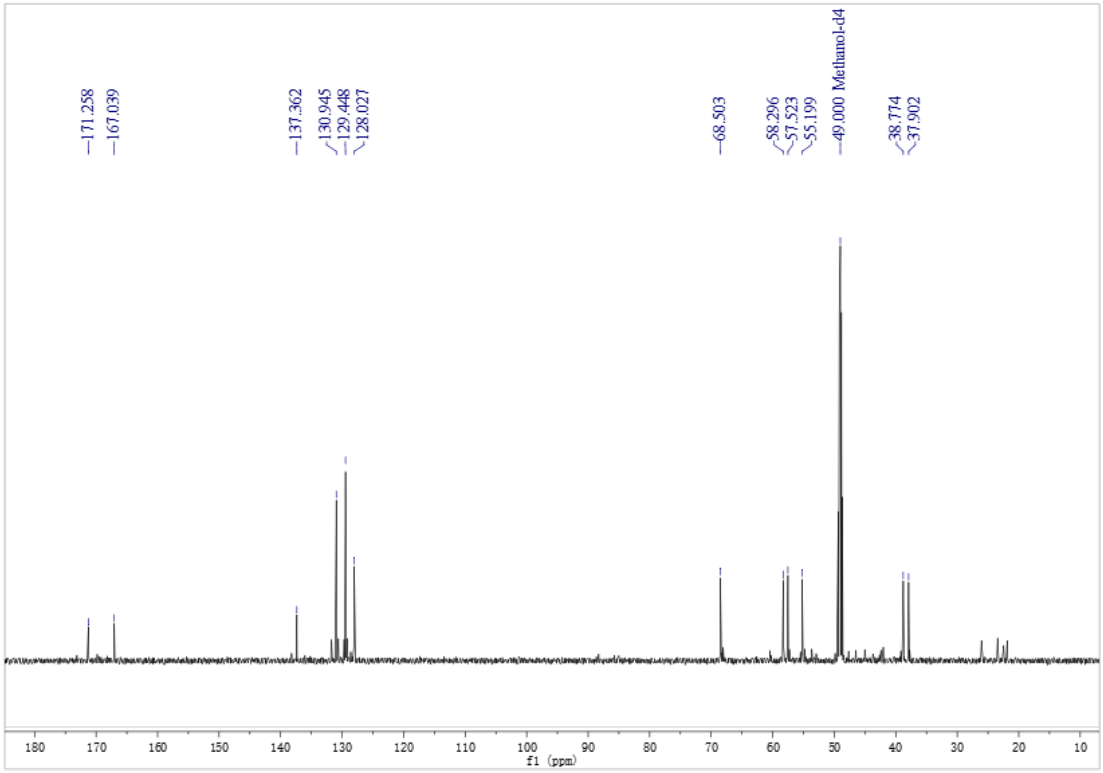


Figure S43. ^{1}H NMR spectra of compound 11 in CD_3OD.



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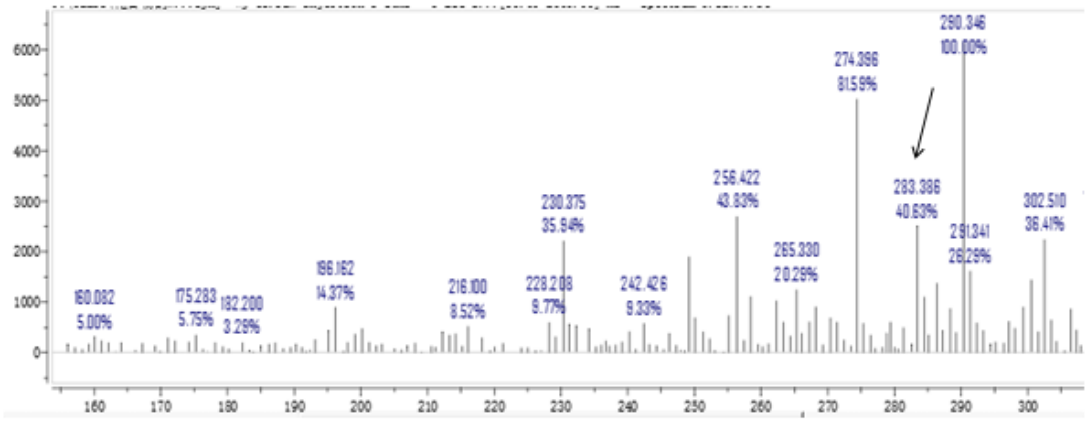

Figure S45.ESI-MS spectrum of compound 11.

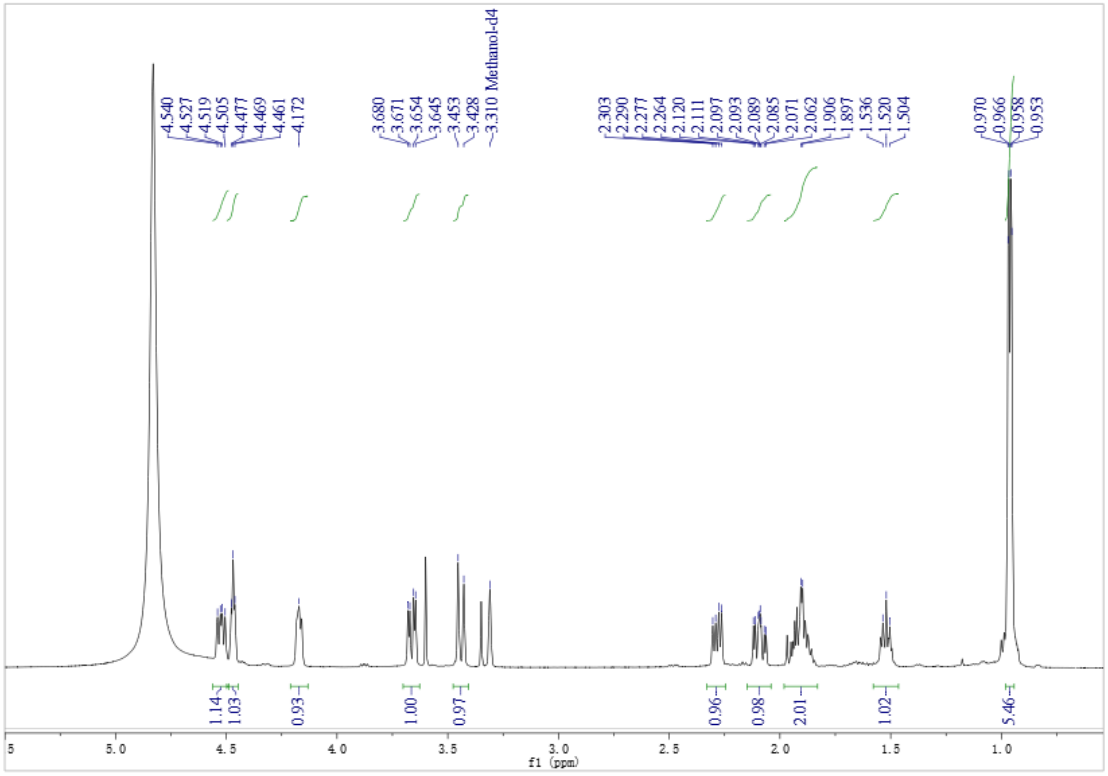

Figure S46. ^{1}H NMR spectra of compound 12 in CD_3OD.

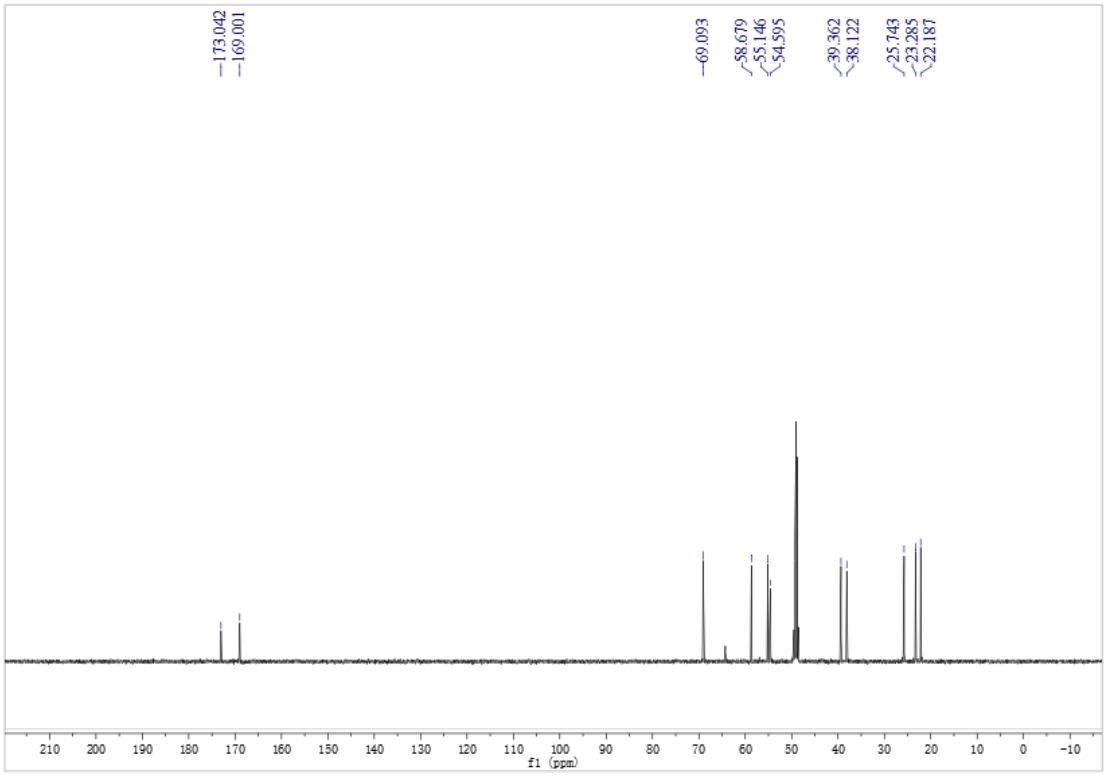

Figure S47. ^{13}C spectra of compound 12 in CD_3OD.

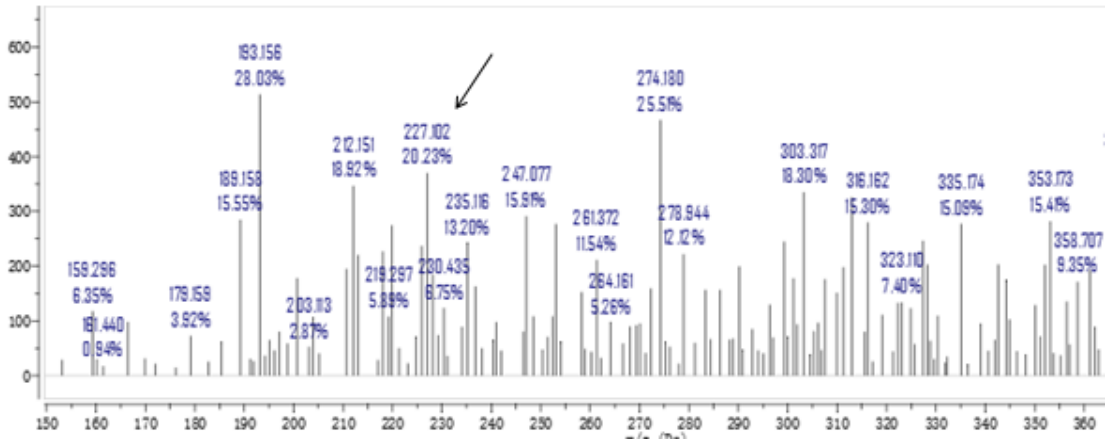

Figure S48.ESI-MS spectrum of compound 12.

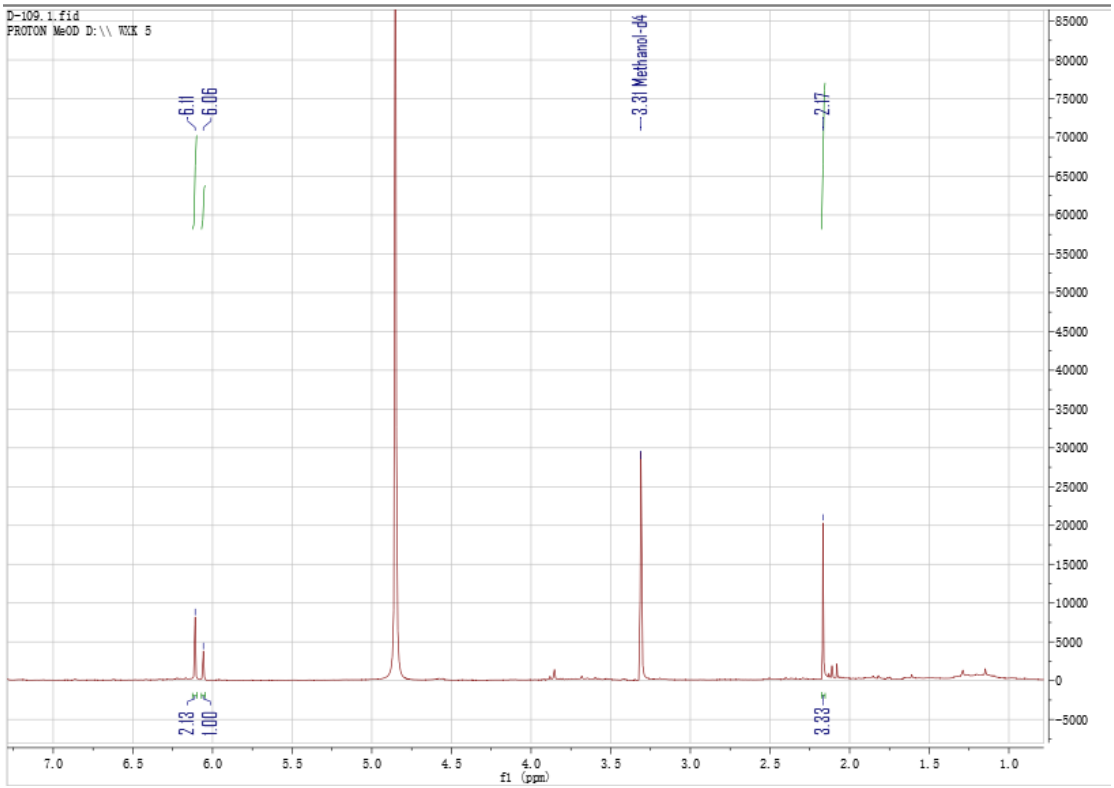

Figure S49. ^{1}H NMR spectra of compound 13 in CD_3OD.

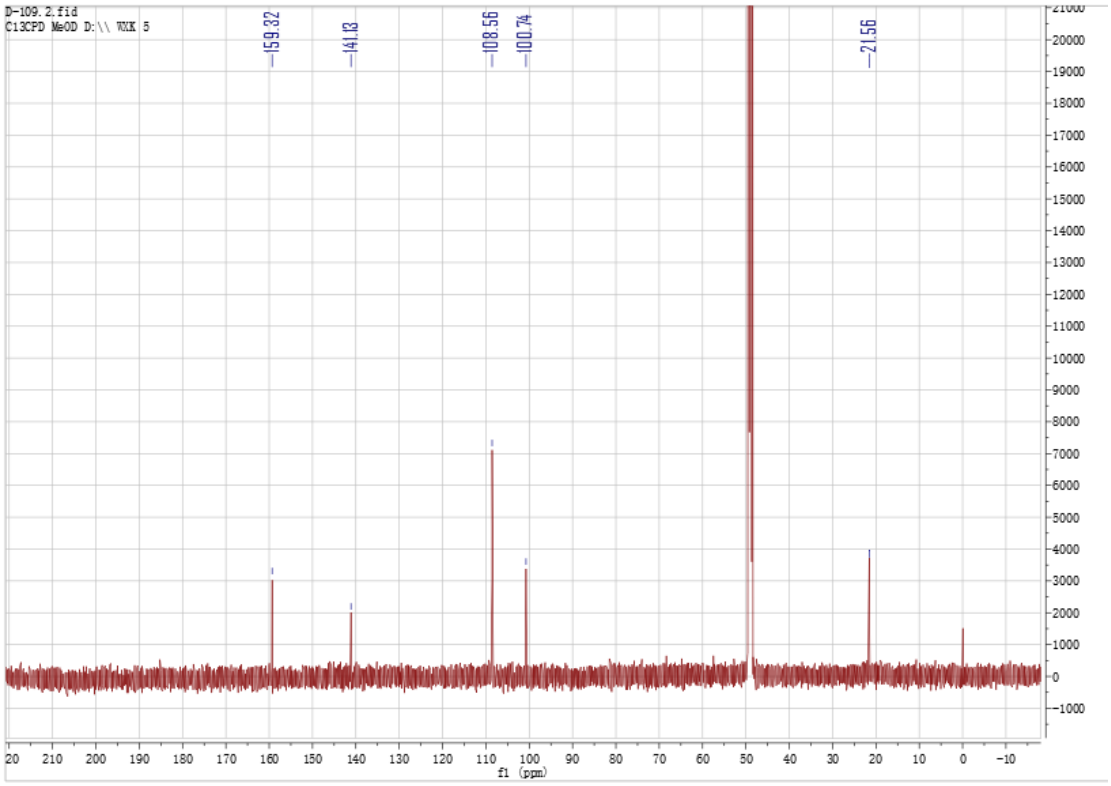

Figure S50. ^{13}C spectra of compound 13 in CD_3OD.

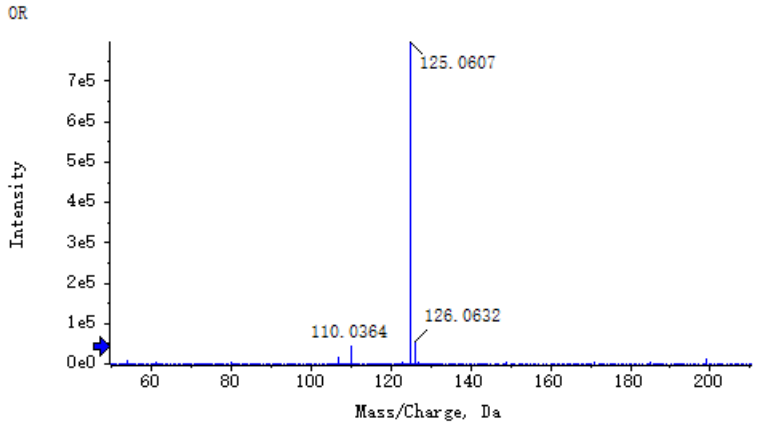

Figure S51.HRESI-MS spectrum of compound 13.

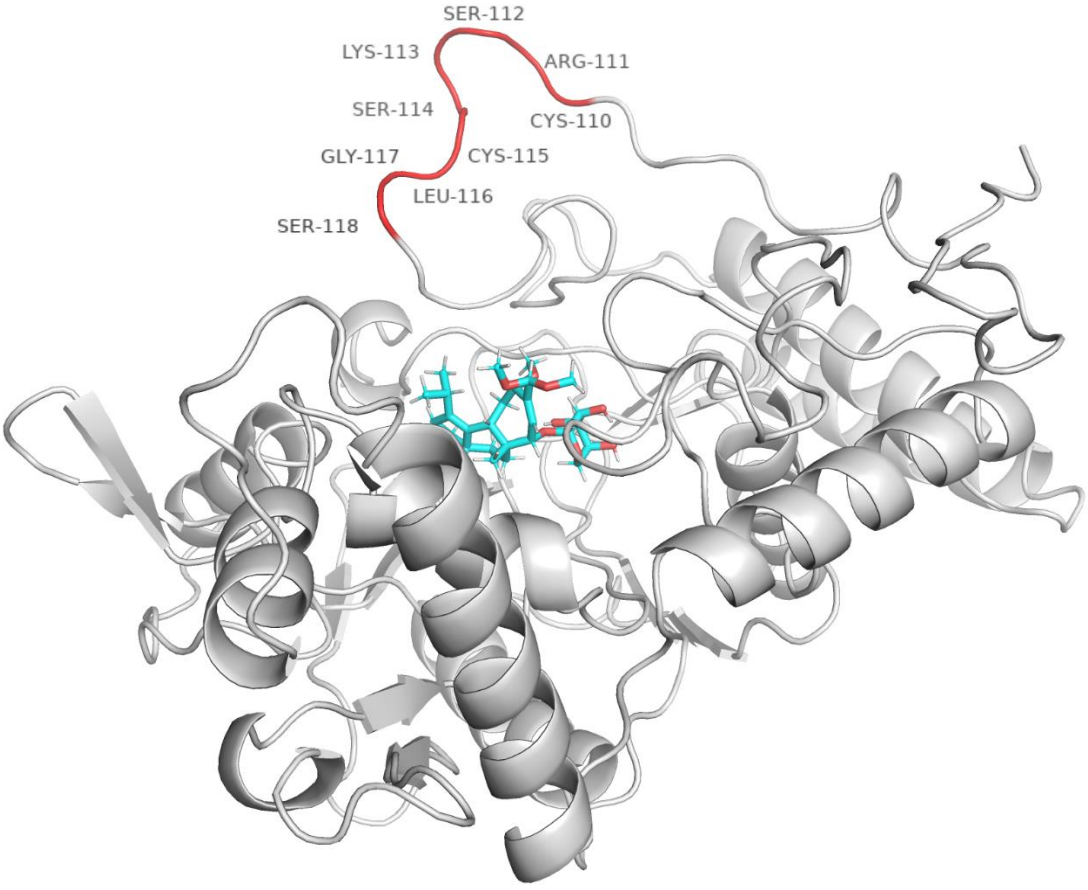

Figure S52.Region of protein instability identified by RMSF analysis.

Table S1. IC_{50} data of 1-9 inhibited the LPS-induced NO production in culture medium.

Compounds	IC_{50} (μM)
1	10.14±0.14
2	5.82±0.18
3	31.44±1.39
4	29.22±0.57
5	23.89±0.83
6	>40
7	>40
8	>40
9	>40
Quercetin	15.88±0.12