Supplementary Information

- Figure S1. ¹H NMR spectrum (600 MHz) of compound 1 in (CD₃)₂CO.
- Figure S2. Expansion of ¹H NMR spectrum (600 MHz) of compound 1 in (CD₃)₂CO.
- **Figure S3.** 13 C NMR spectrum (150 MHz) of compound **1** in (CD₃)₂CO.
- Figure S4. HSQC spectrum (600/150 MHz) of compound 1 in (CD₃)₂CO.
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- **Figure S17.** ¹H NMR spectrum (600 MHz) of compound **3** in (CD₃)₂CO.
- Figure S18. Expansion of ¹H NMR spectrum (600 MHz) of compound 3 in (CD₃)₂CO.
- **Figure S19.** ¹³C NMR spectrum (150 MHz) of compound **3** in (CD₃)₂CO.
- Figure S20. HSQC spectrum (600/150 MHz) of compound 3 in (CD₃)₂CO.
- Figure S21. HMBC spectrum (600/150 MHz) of compound 3 in (CD₃)₂CO.
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- Figure S23. HRESIMS spectrum of compound 3.
- Figure S24. IR spectrum of compound 3.

Figure S1. ¹H NMR spectrum (600 MHz) of compound 1 in (CD₃)₂CO.

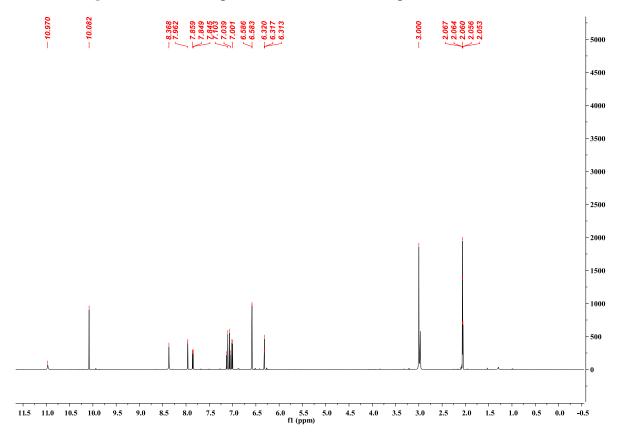
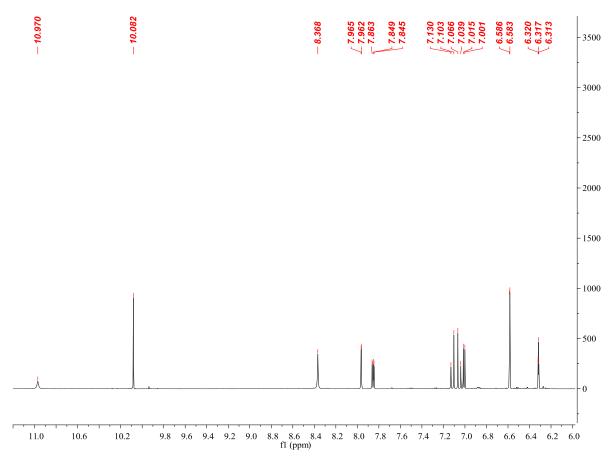
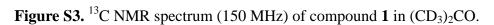


Figure S2. Expansion of ¹H NMR spectrum (600 MHz) of compound 1 in (CD₃)₂CO.





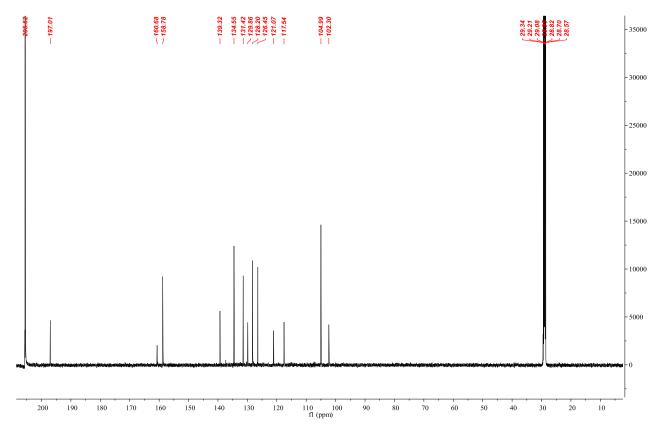
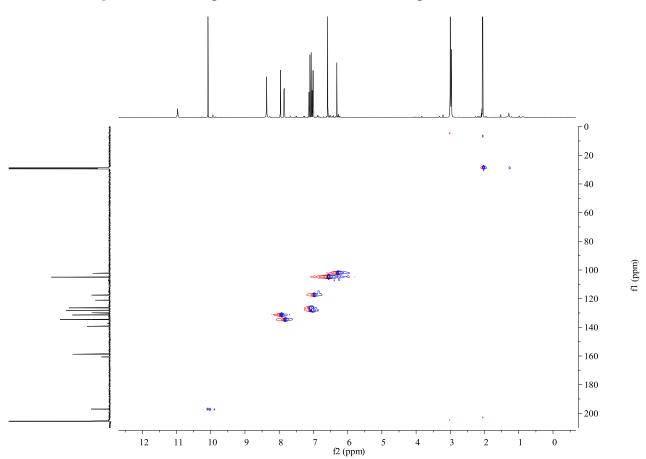
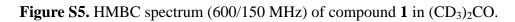


Figure S4. HSQC spectrum (600/150 MHz) of compound 1 in (CD₃)₂CO.





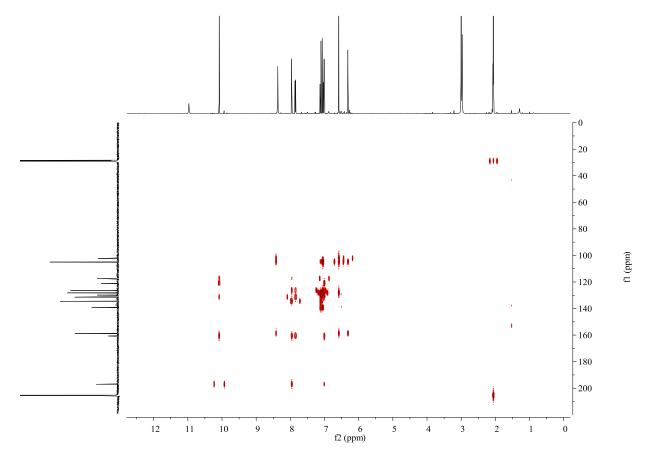


Figure S6. Expansion of (600/150 MHz) of compound **1** in (CD₃)₂CO.

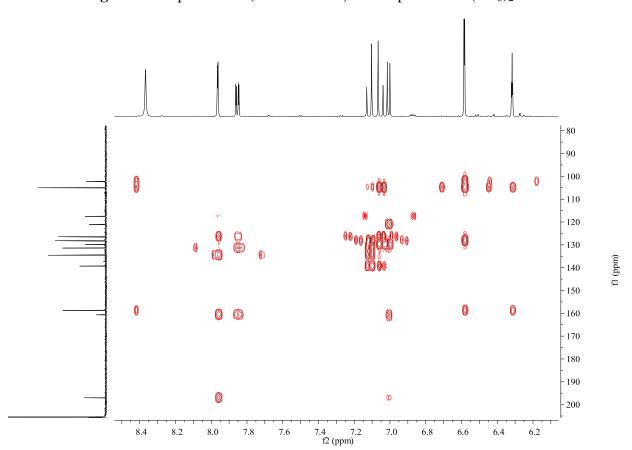


Figure S7. HRESIMS spectrum of compound 1.

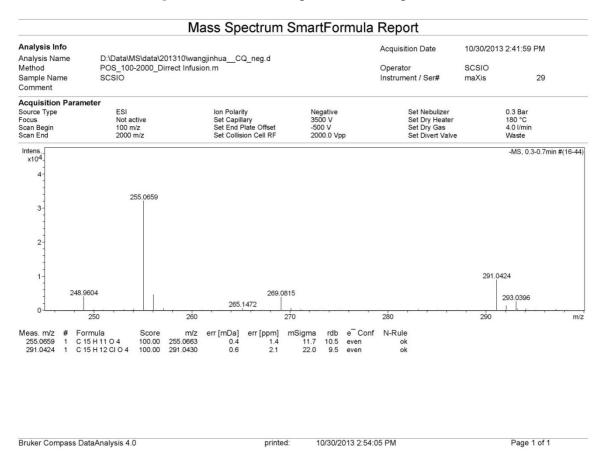
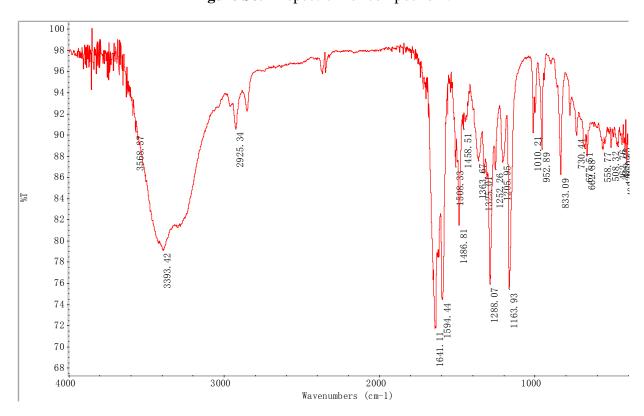
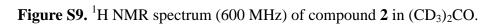


Figure S8. IR spectrum of compound 1.





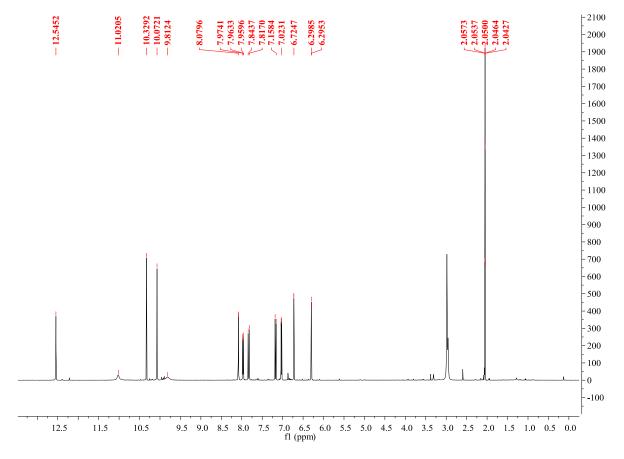


Figure S10. Expansion of ¹H NMR spectrum (600 MHz) of compound **2** in (CD₃)₂CO.

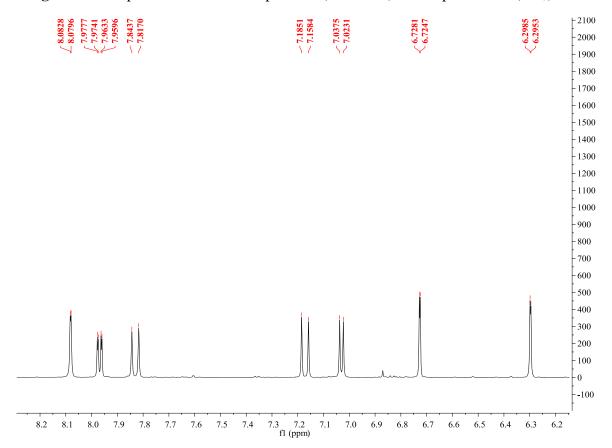


Figure S11. ¹³C NMR spectrum (150 MHz) of compound 2 in (CD₃)₂CO.

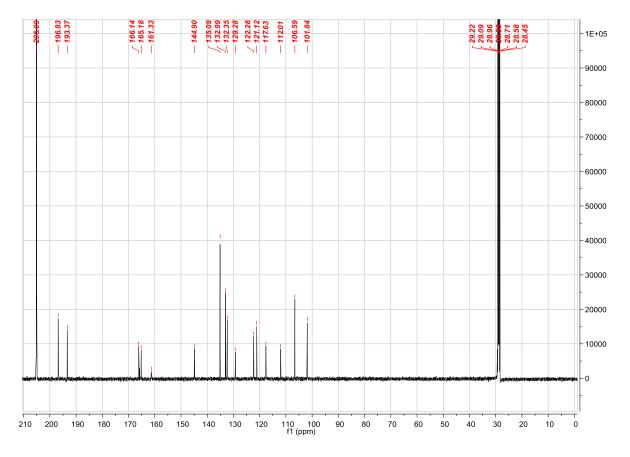


Figure S12. HSQC spectrum (600/150 MHz) of compound 2 in (CD₃)₂CO.

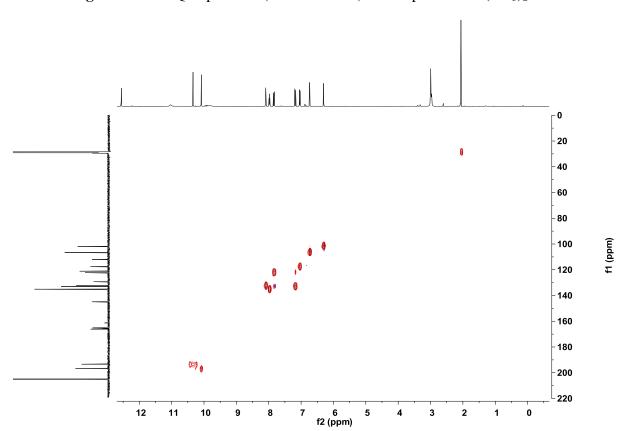


Figure S13. HMBC spectrum (600/150 MHz) of compound 2 in (CD₃)₂CO.

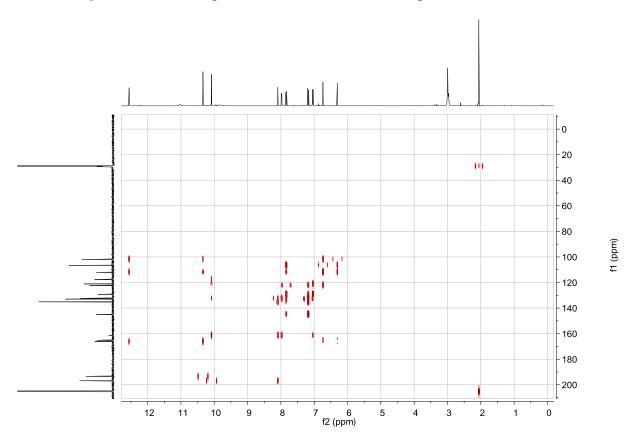
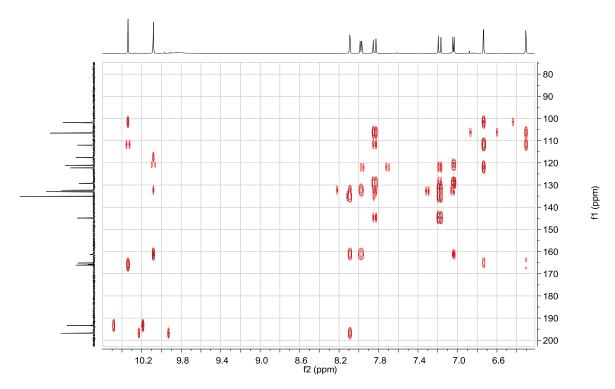


Figure S14. Expansion of HMBC spectrum(600/150 MHz) of compound 2 in (CD₃)₂CO.



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Figure S15. HRESIMS spectrum of compound 2.

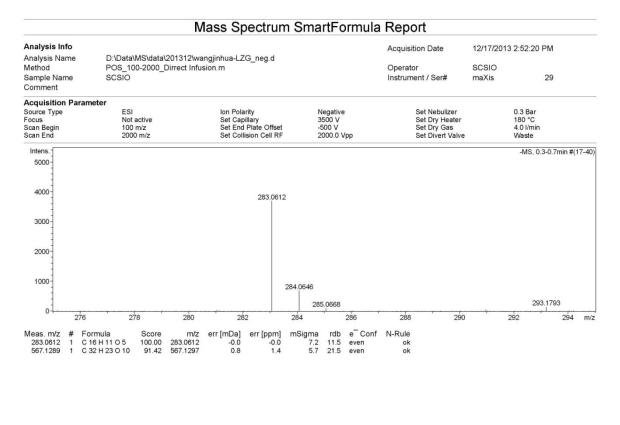
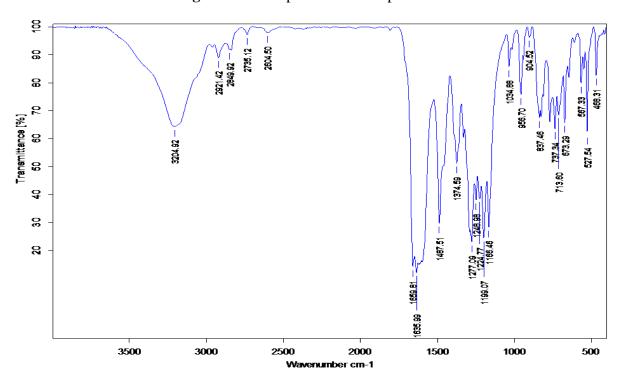


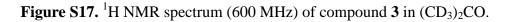
Figure S16. IR spectrum of compound 2.

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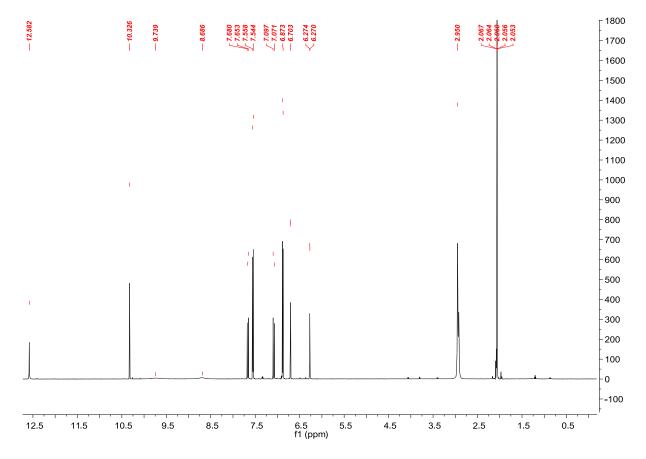


Figure S18. Expansion of ¹H NMR spectrum (600 MHz) of compound **3** in (CD₃)₂CO.

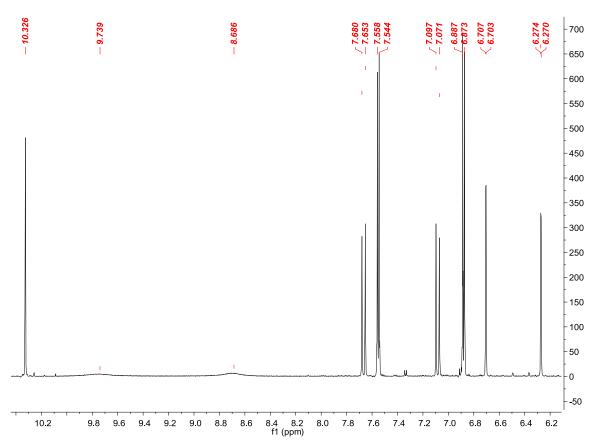


Figure S19. ¹³C NMR spectrum (150 MHz) of compound **3** in (CD₃)₂CO.

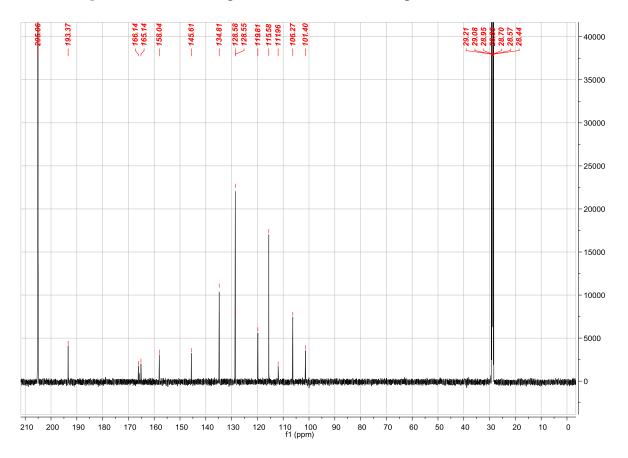
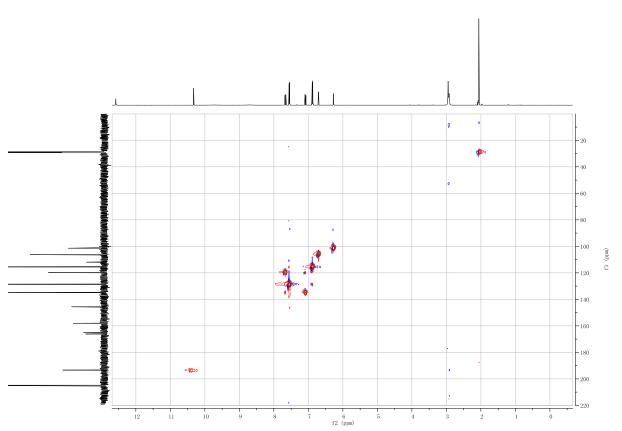
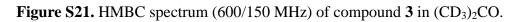


Figure S20. HSQC spectrum (600/150 MHz) of compound 3 in $(CD_3)_2CO$.





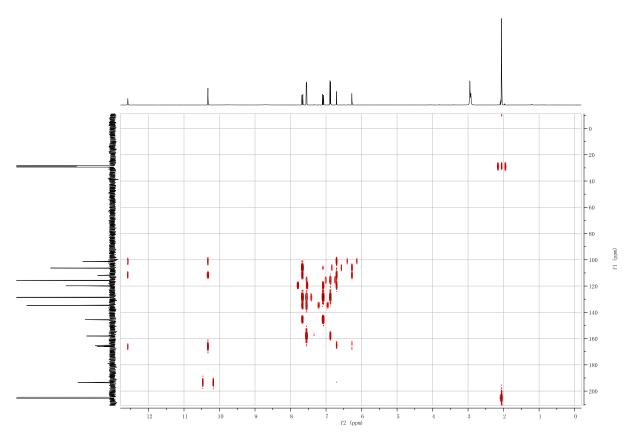


Figure S22. Expansion of HMBC spectrum(600/150 MHz) of compound 3 in (CD₃)₂CO.

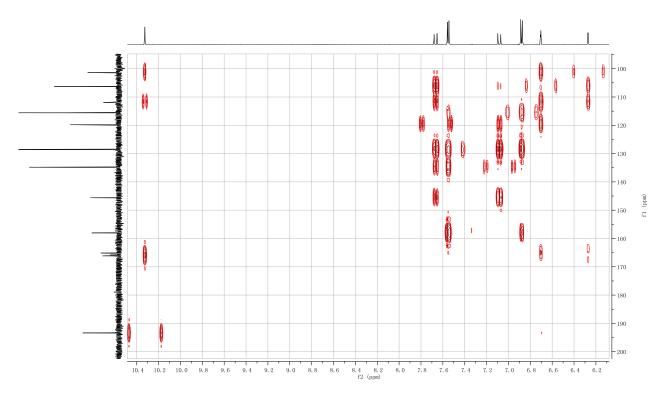


Figure S23. HRESIMS spectrum of compound 3.

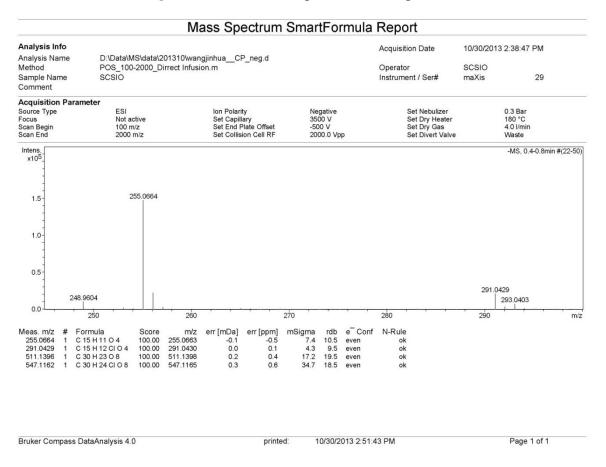
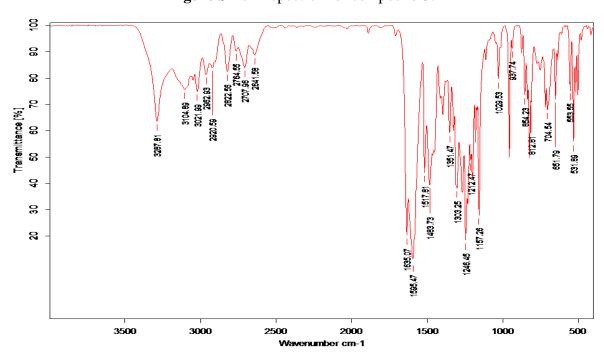


Figure S24. IR spectrum of compound 3.



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