

Therapeutic applications of Dithiocarbamate Sulfonamide-Derived Dithiocarbamate Gold(I) Complexes Induce Apoptosis of Colon Cancer Cells by Activation of Caspase 3 and Redox Imbalance

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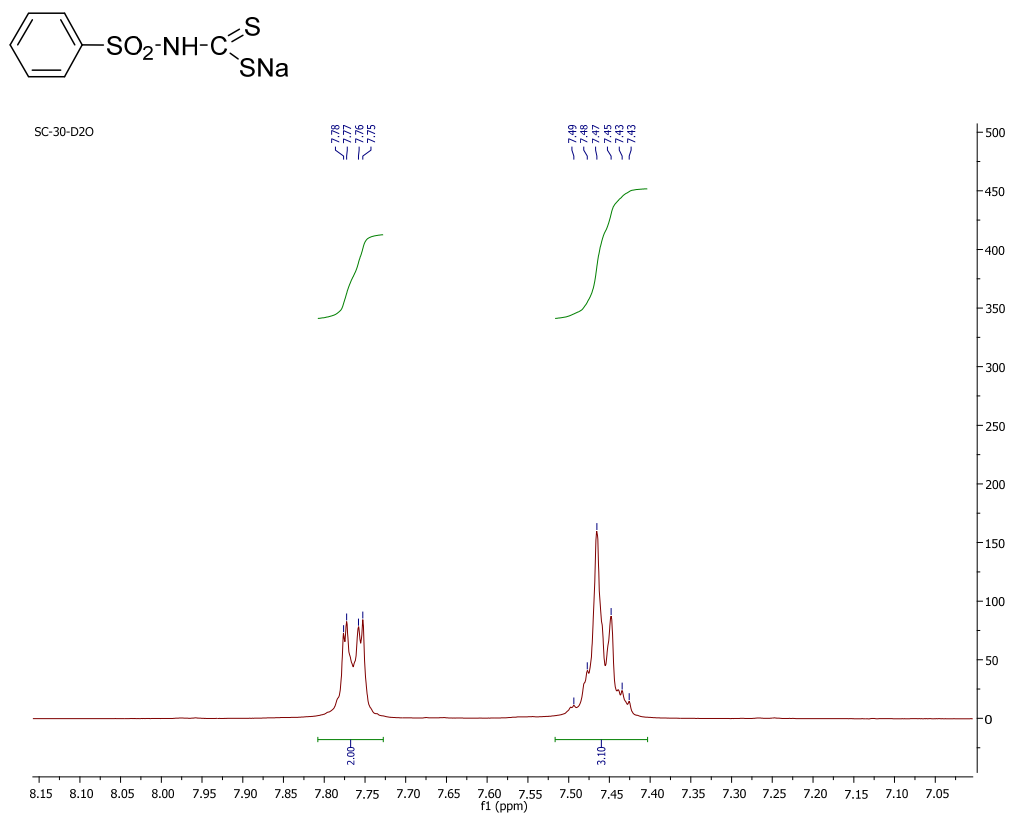


Figure S1. ^1H NMR spectrum of compound **L1** in D_2O .

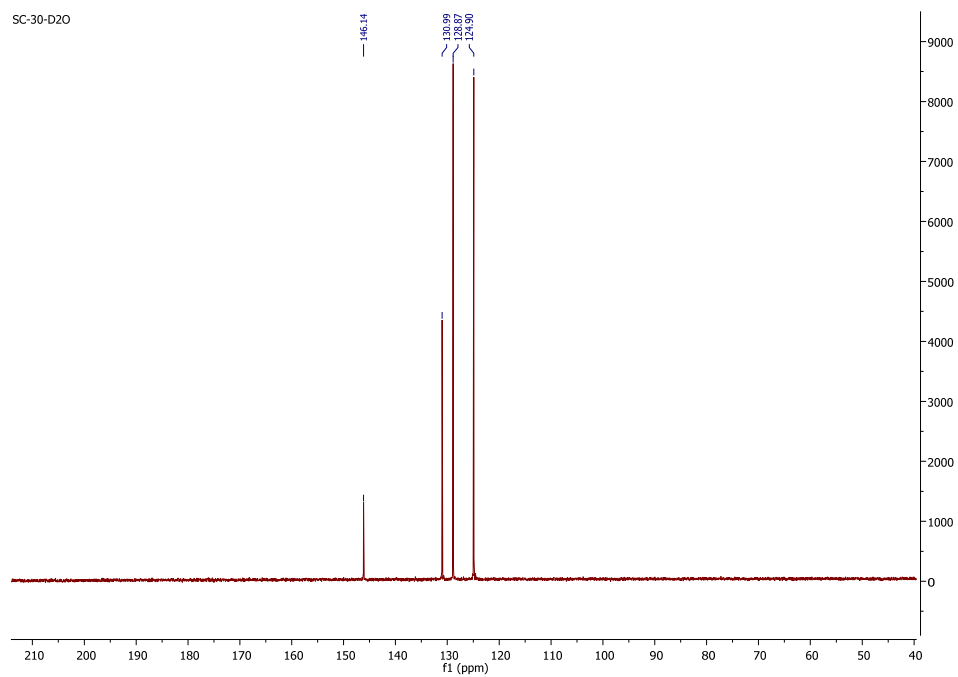


Figure S2. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **L1** in D_2O .

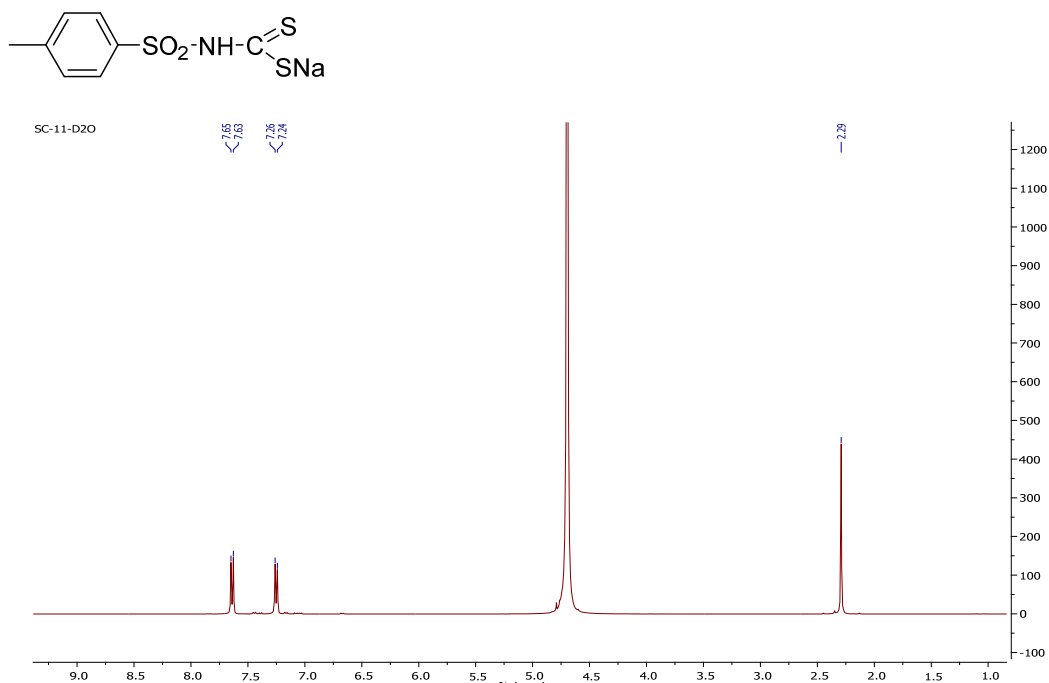


Figure S3. ^1H NMR spectrum of compound **L2** in D_2O .

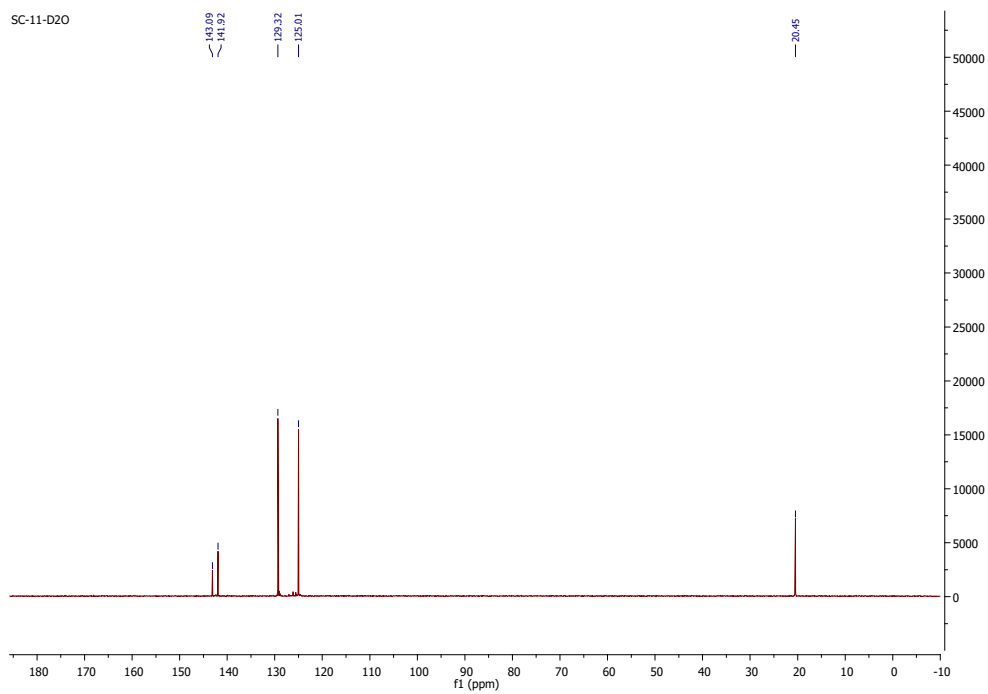


Figure S4. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **L2** in D_2O .

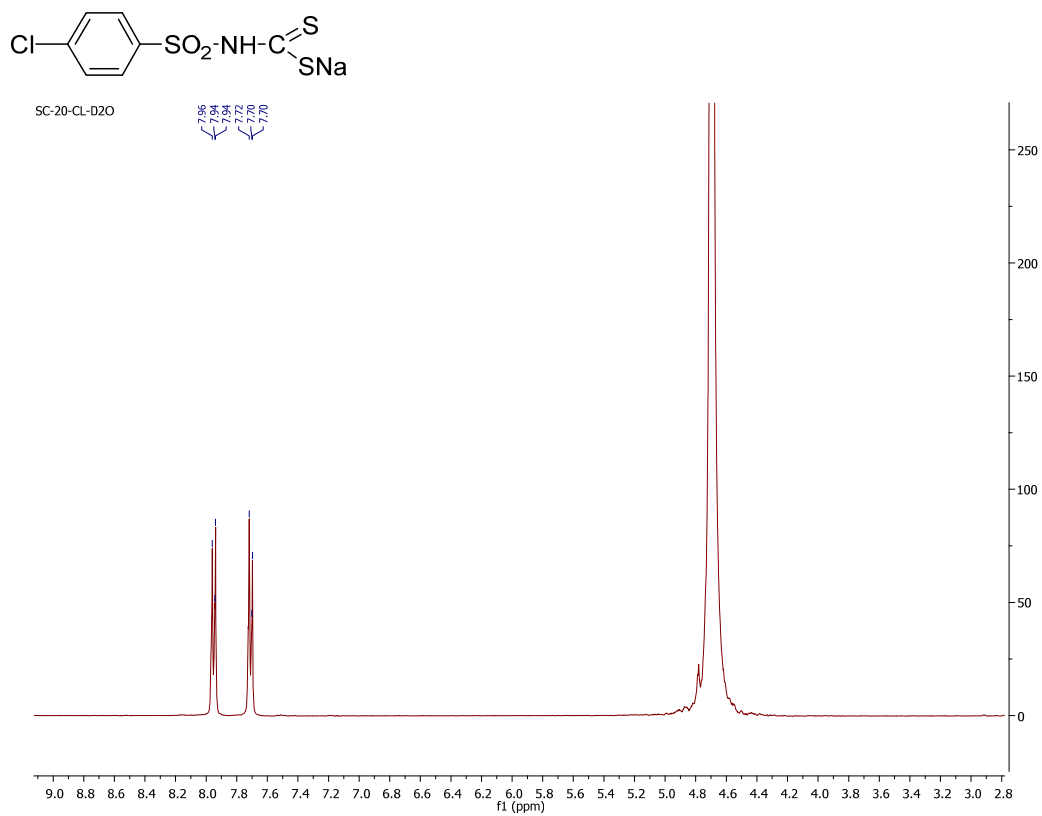


Figure S5. ¹H NMR spectrum of compound **L3** in dmsO-d₆.

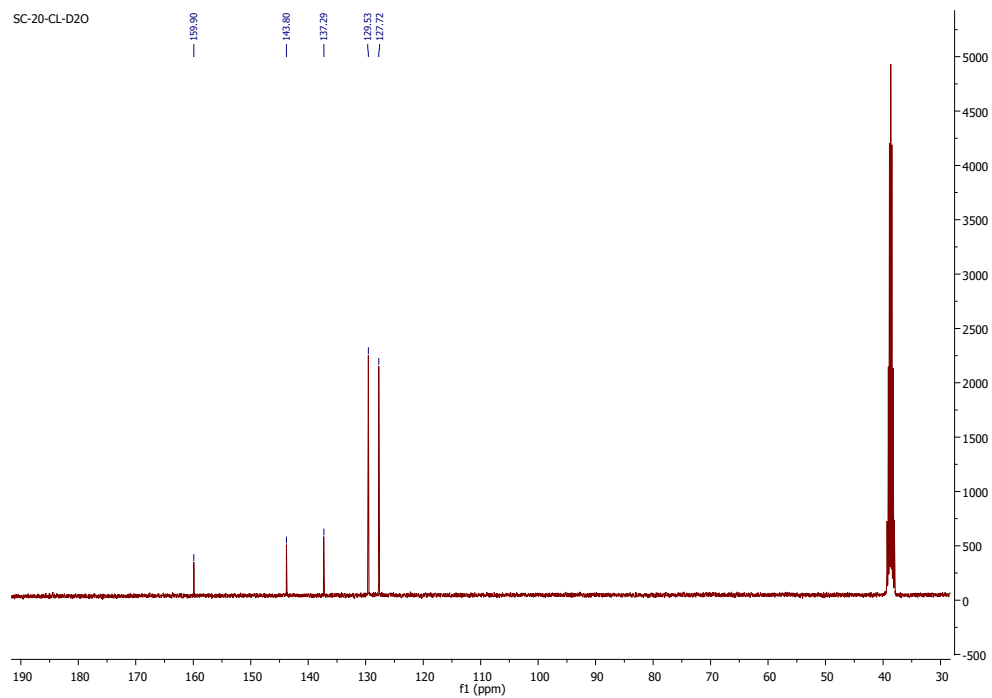


Figure S6. ¹³C{¹H} NMR spectrum of compound **L3** in dmsO-d₆.

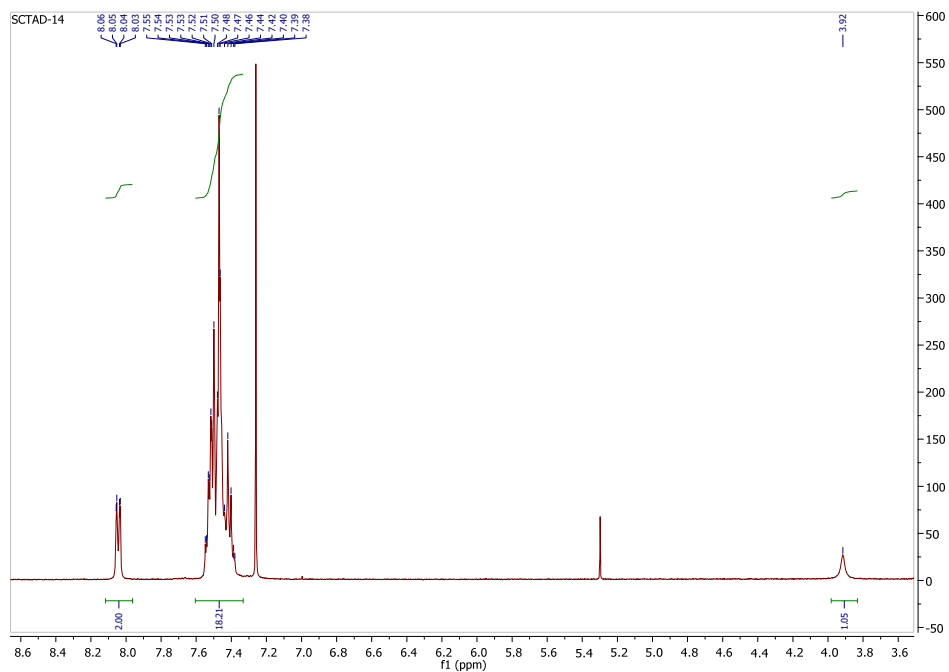
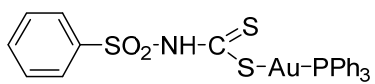


Figure S7. ¹H NMR spectrum of compound **1** in CDCl₃.

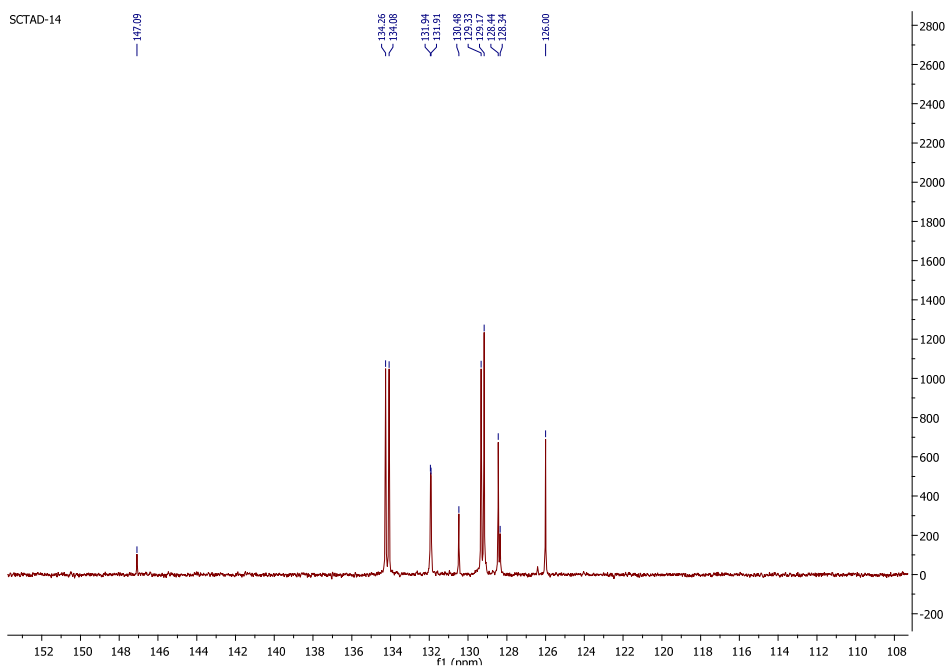


Figure S8. ¹³C{¹H} NMR spectrum of compound **1** in CDCl₃.

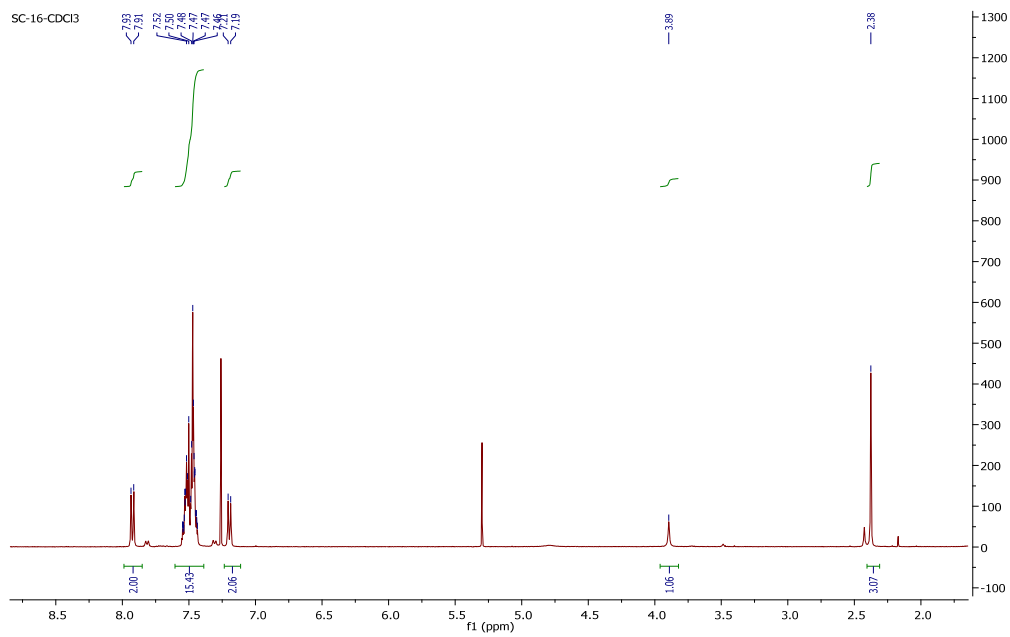
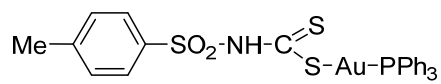


Figure S9. ¹H NMR spectrum of compound **2** in CDCl₃.

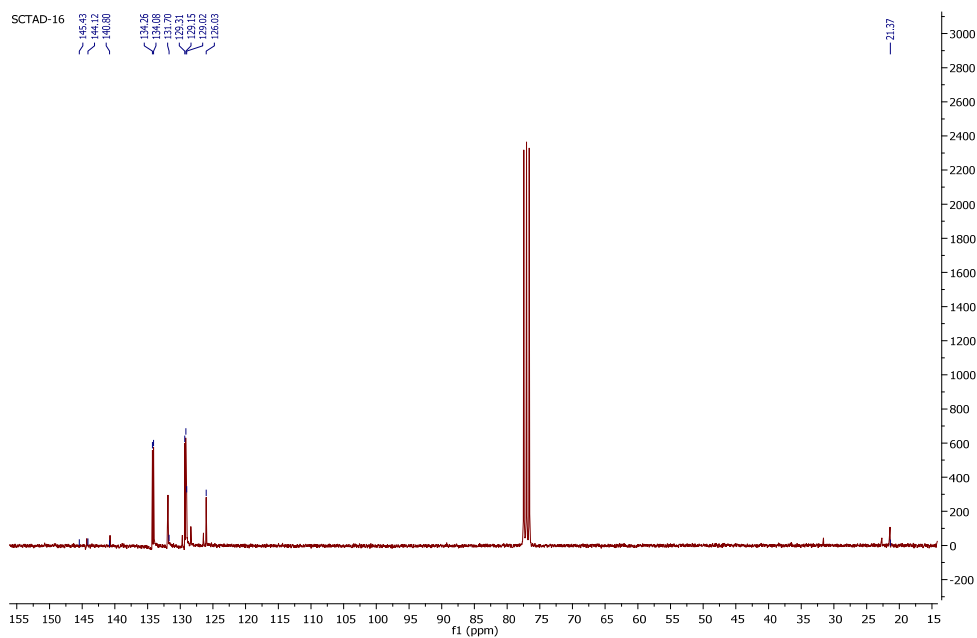


Figure S10. ¹³C{¹H} NMR spectrum of compound **2** in CDCl₃.

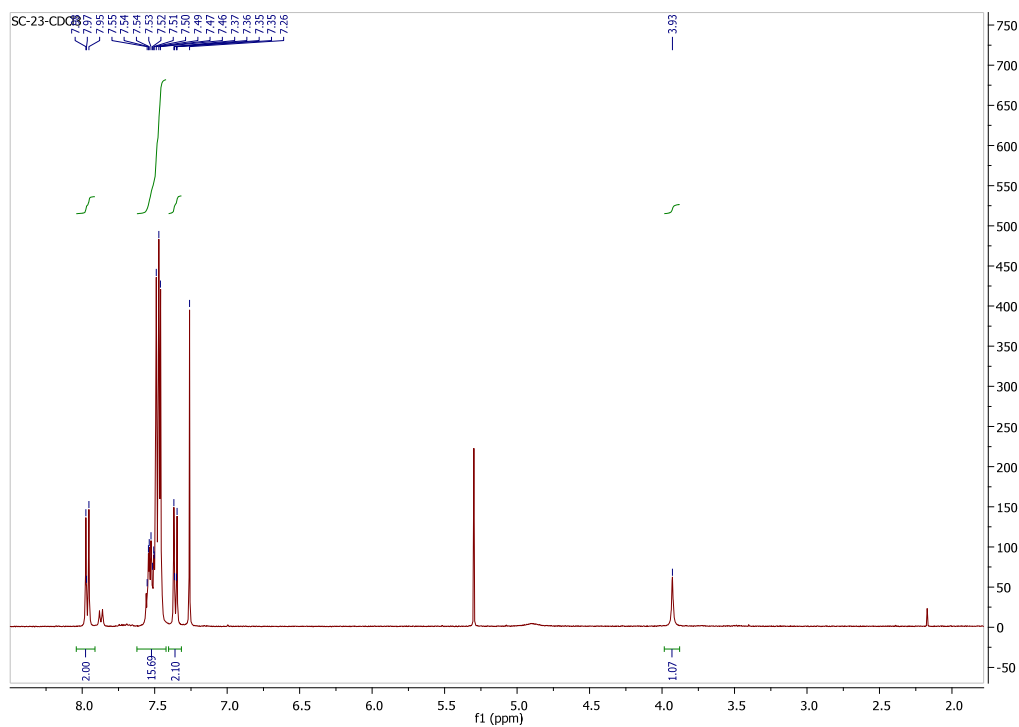
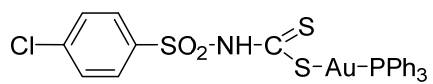


Figure S11. ¹H NMR spectrum of compound **3** in CDCl₃.

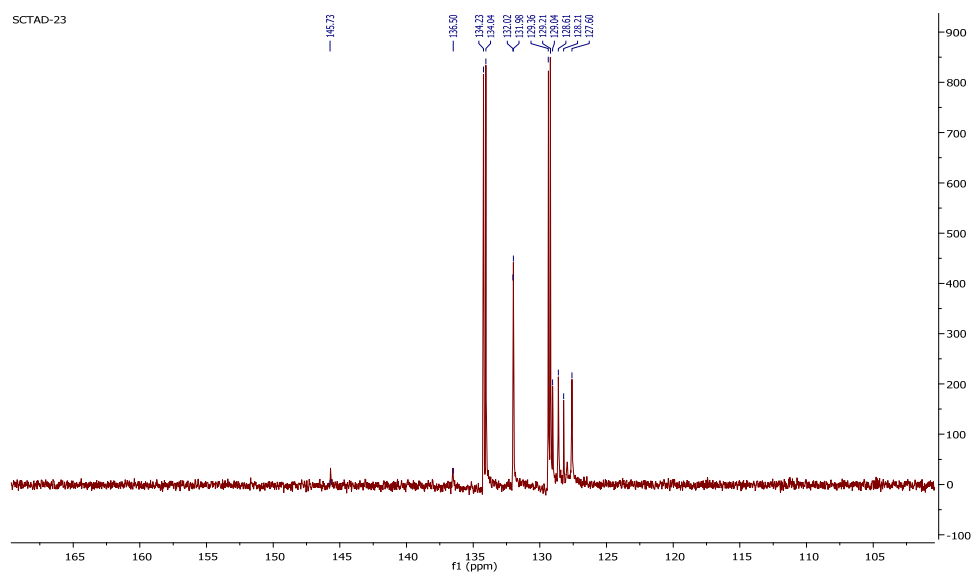


Figure S12. ¹³C{¹H} NMR spectrum of compound **3** in CDCl₃.

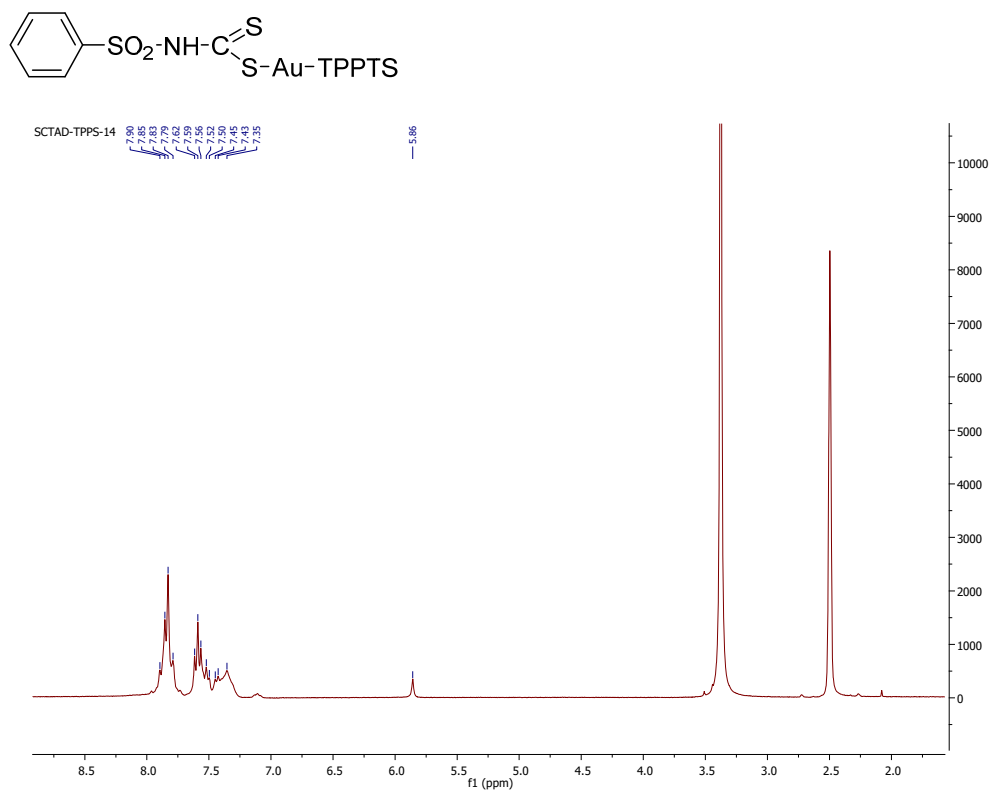


Figure S13. ^1H NMR spectrum of compound **4** in dms0-d_6 .

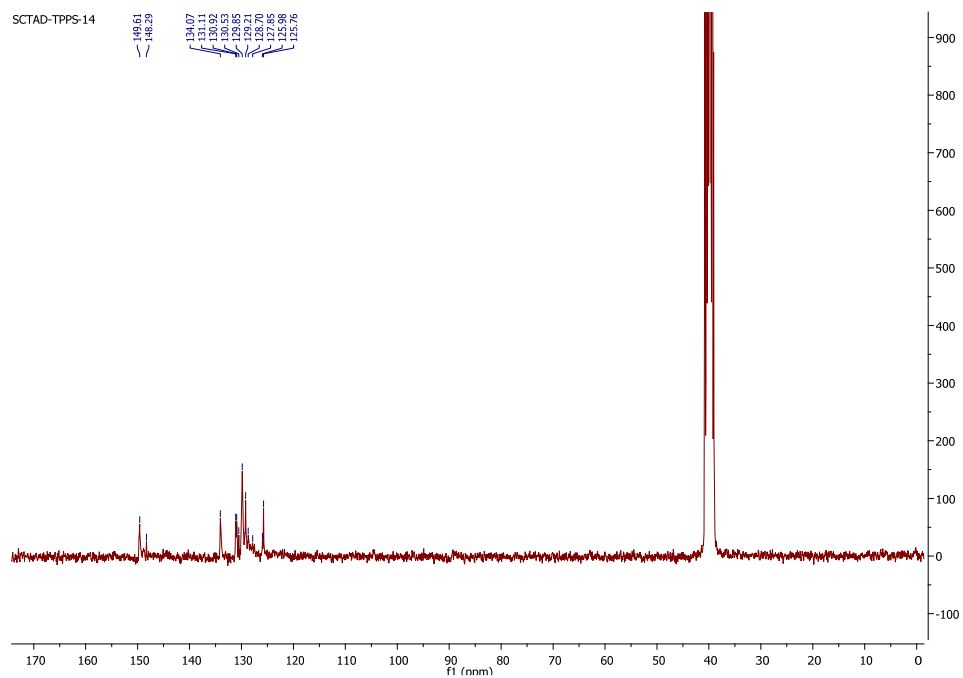


Figure S14. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **4** in dms0-d_6 .

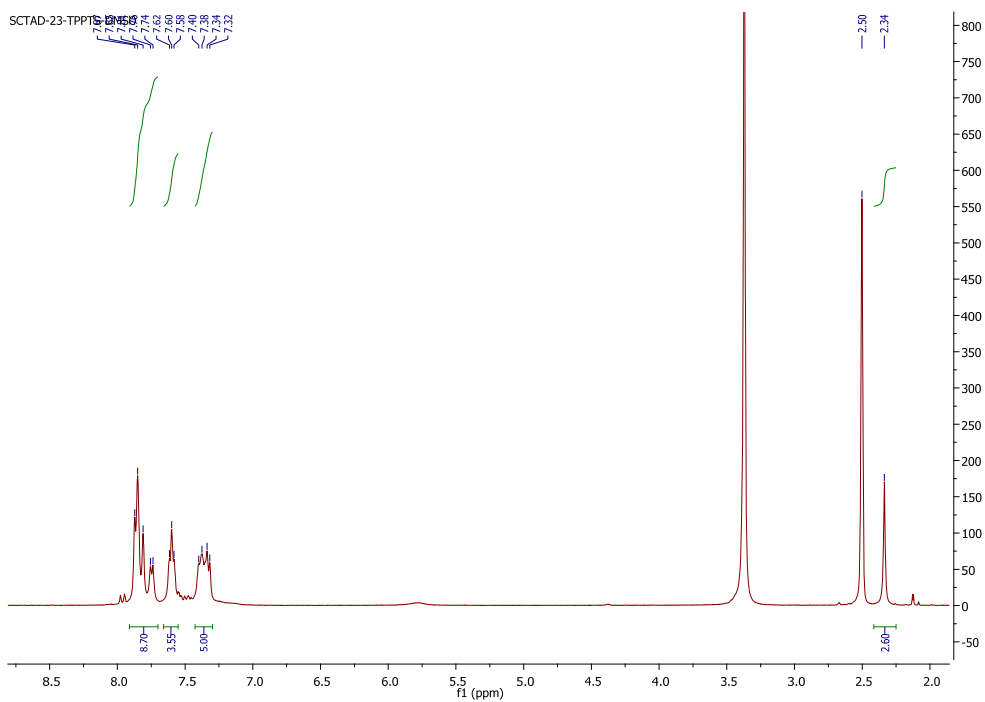
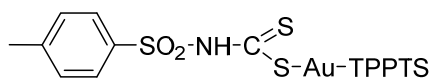


Figure S15. ^1H NMR spectrum of compound **5** in dms0-d_6 .

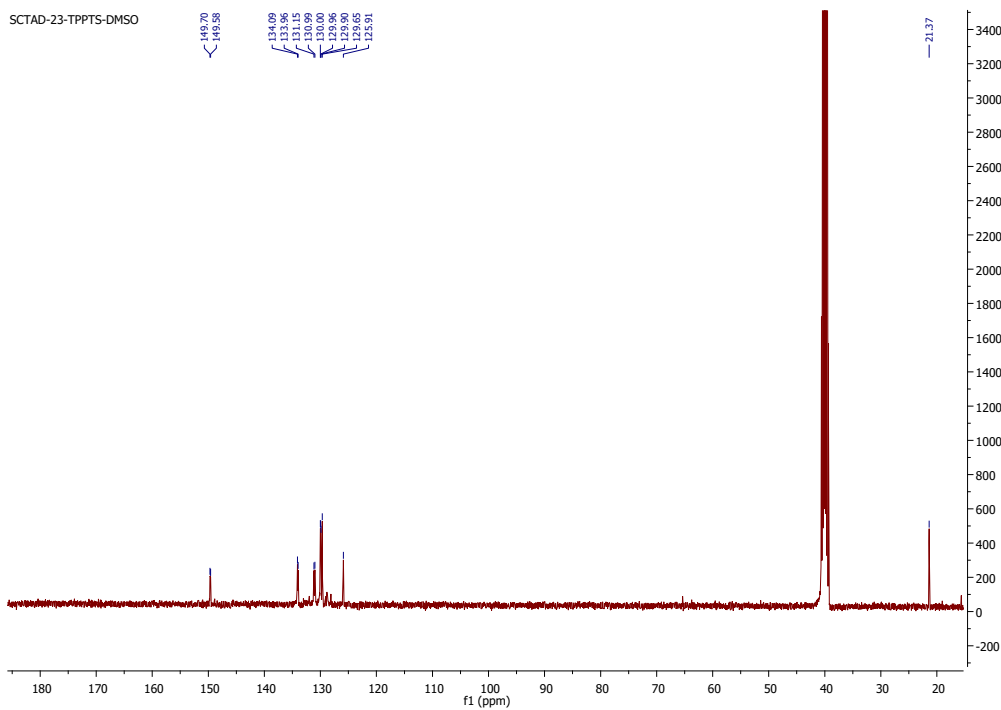
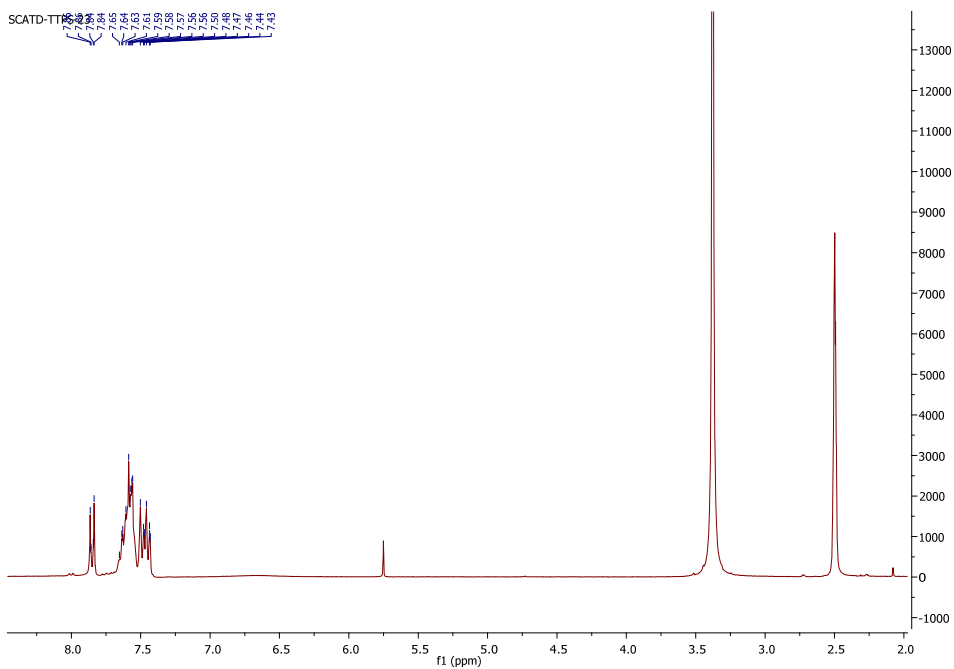


Figure S16. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **5** in dms0-d_6 .



SCATD-TTPS-23

134.22
134.02
131.04
129.89
128.89
129.12
128.39

f1 (ppm)

Figure S18. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of compound **6** in dms -d_6 .

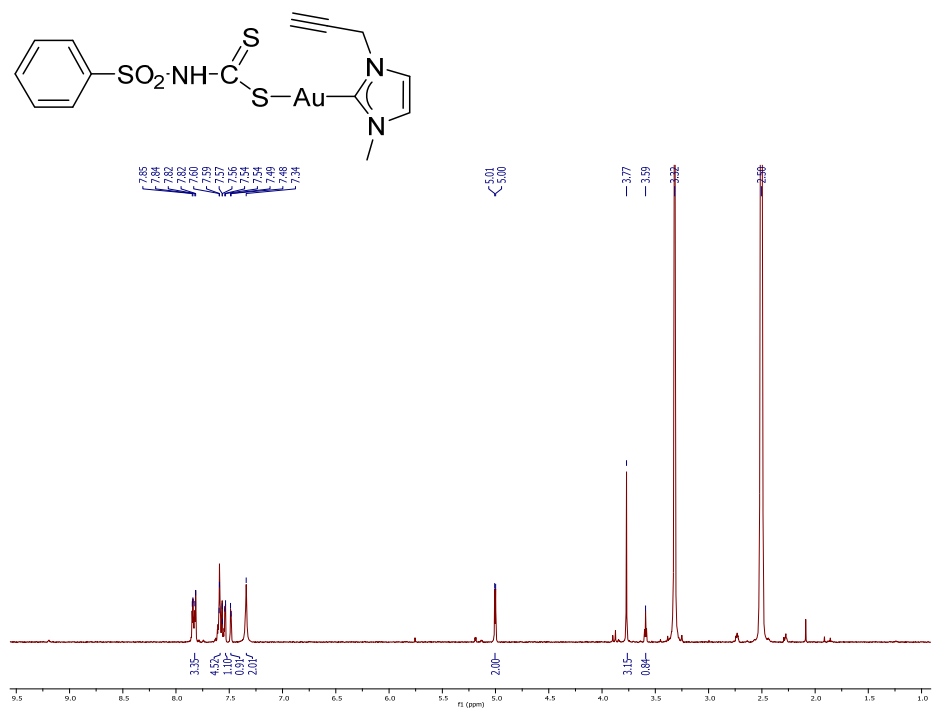


Figure S19. ¹H NMR spectrum of compound **7** in dms0-d₆.

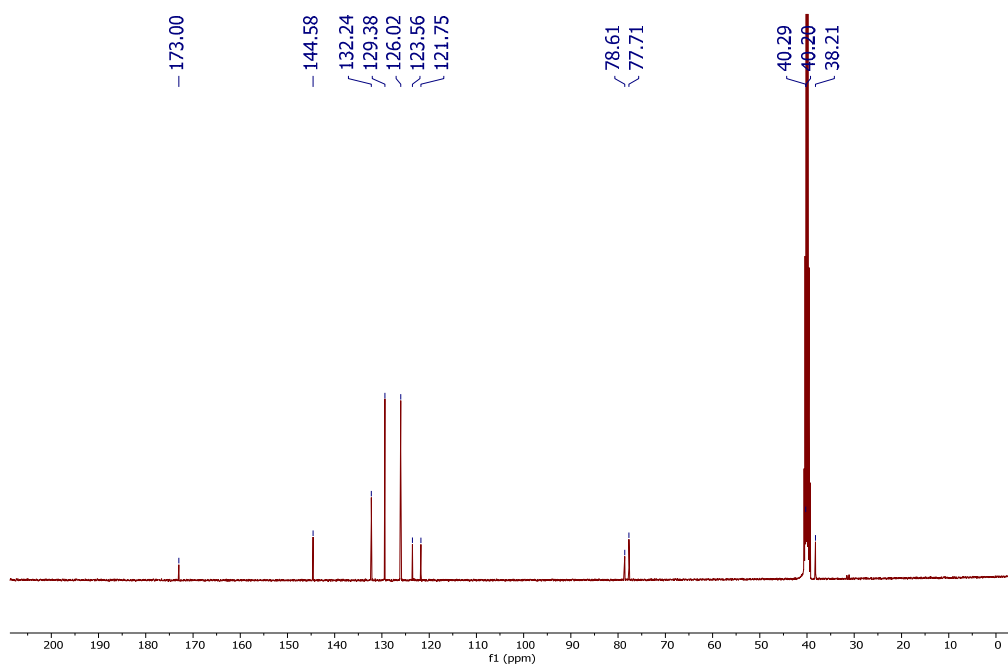


Figure S20. ¹³C{¹H} NMR spectrum of compound **7** in dms0-d₆.

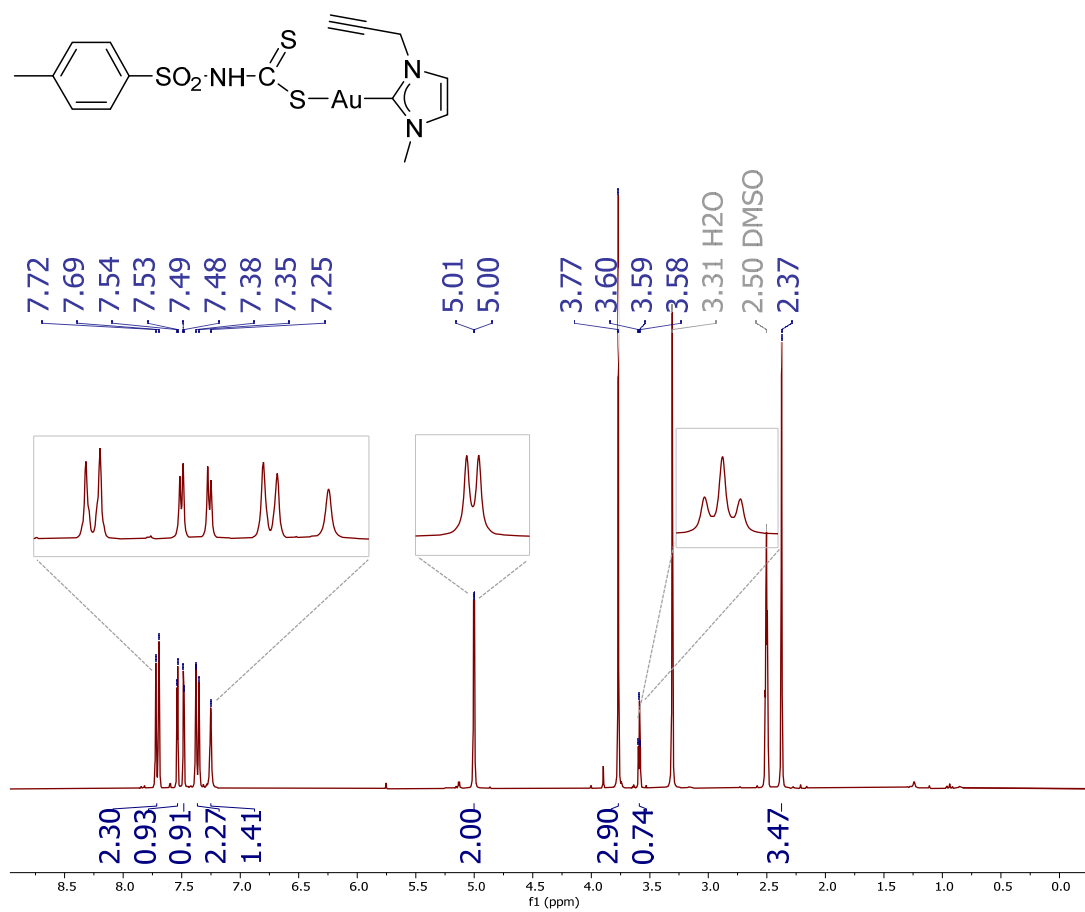


Figure S21. ¹H NMR spectrum of compound **8** in dms0-d₆.

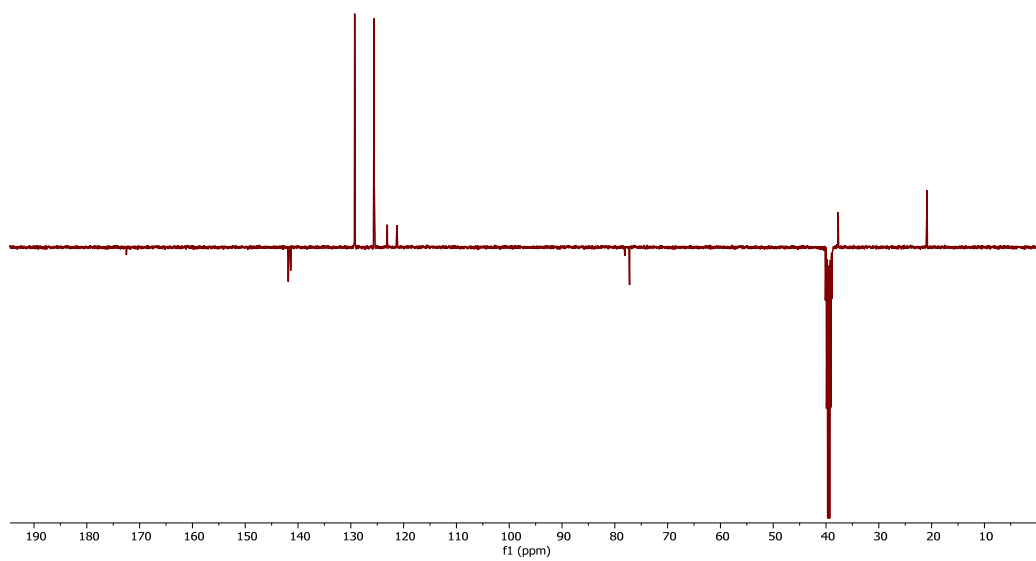


Figure S22. ¹³C{¹H}-apt NMR spectrum of compound **8** in dms0-d₆.

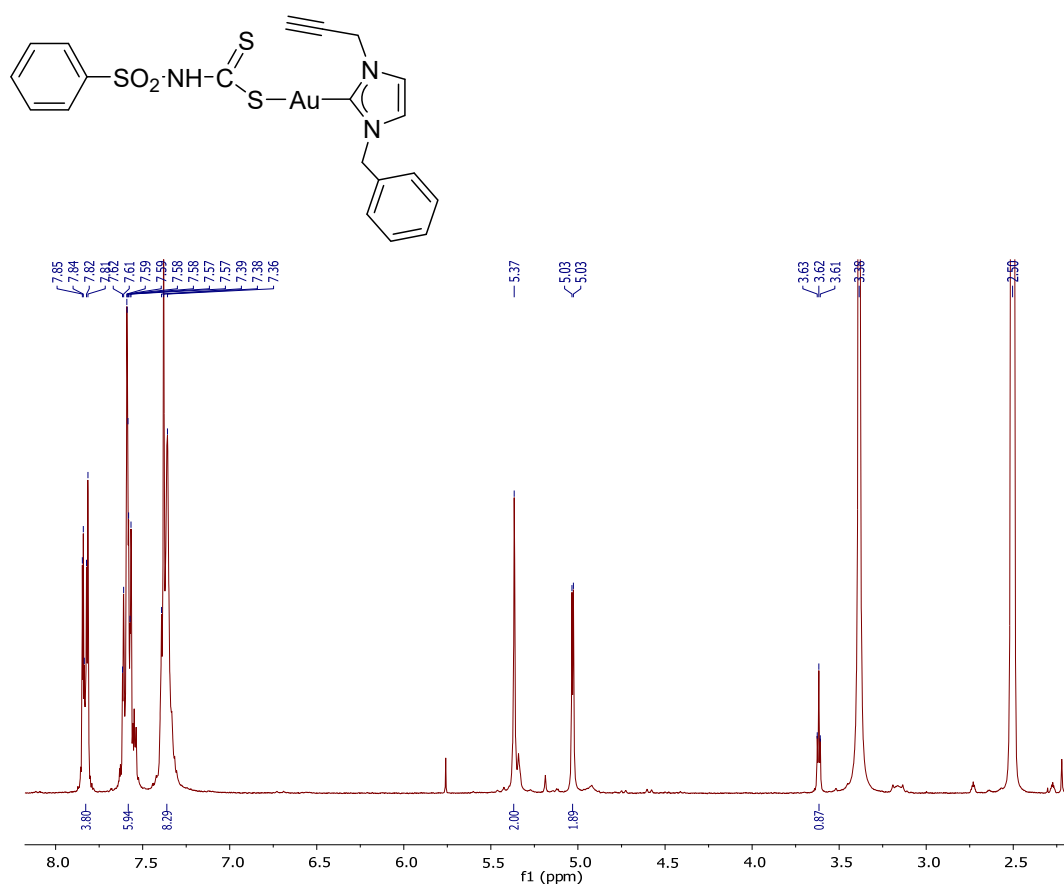


Figure S23. ¹H NMR spectrum of compound **9** in dmso-d₆.

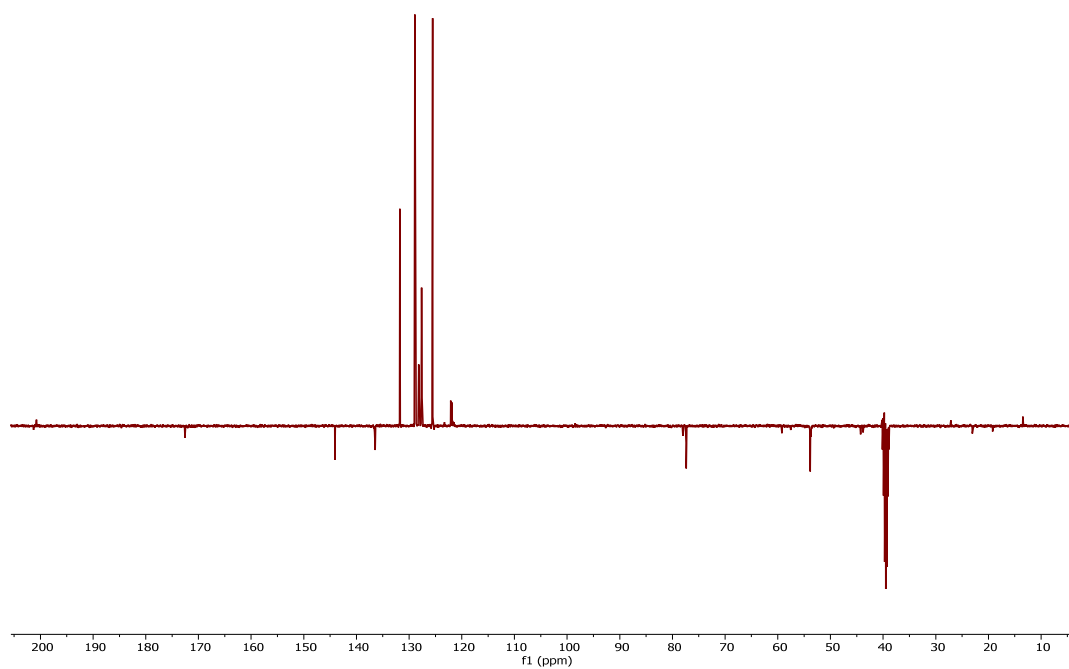


Figure S24. ¹³C{¹H} NMR spectrum of compound **9** in dmso-d₆.

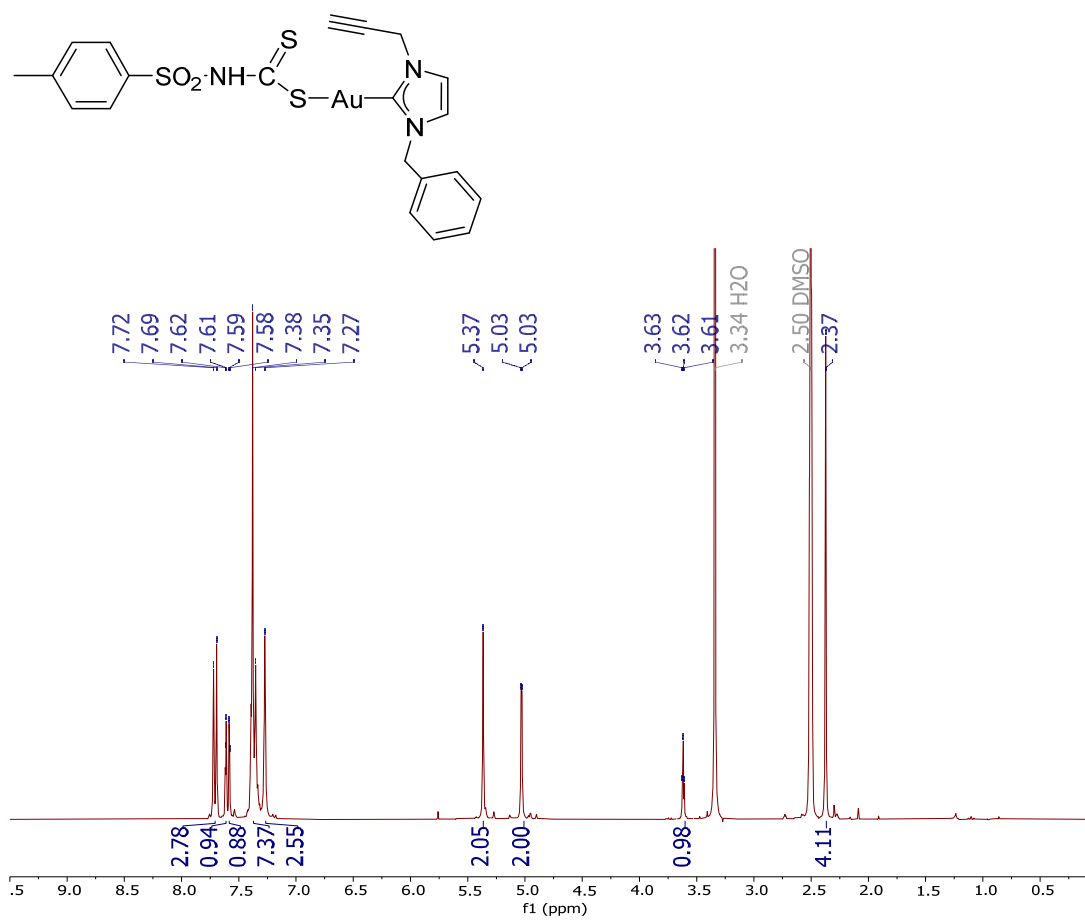


Figure S25. ¹H NMR spectrum of compound **10** in DMSO-d₆.

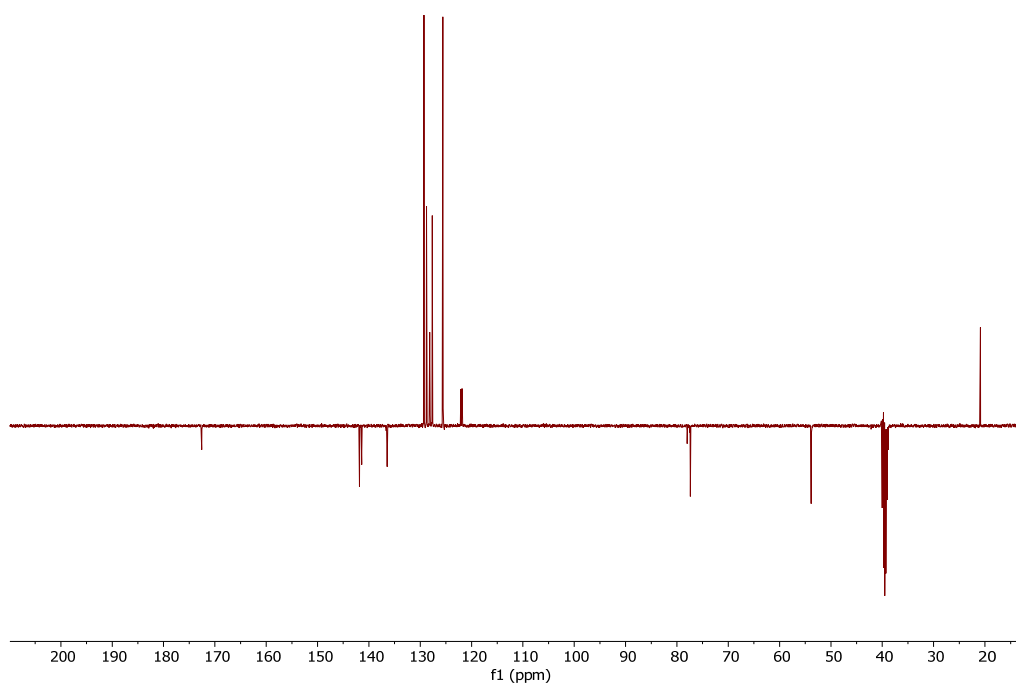
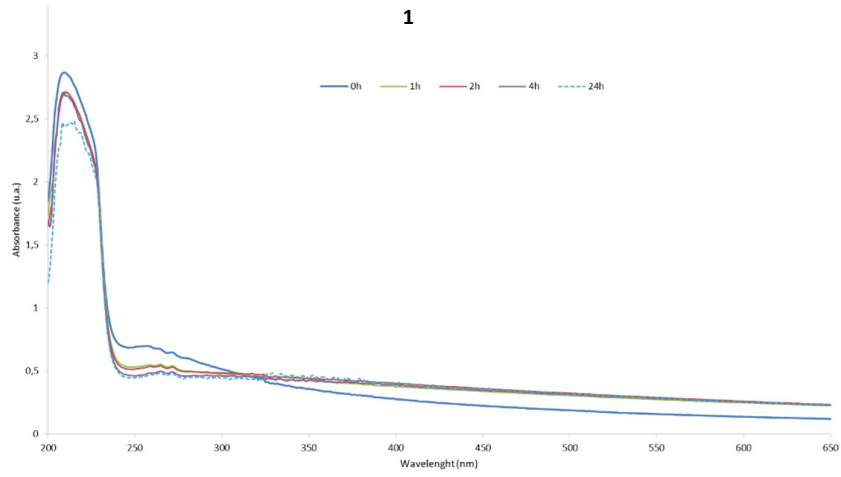
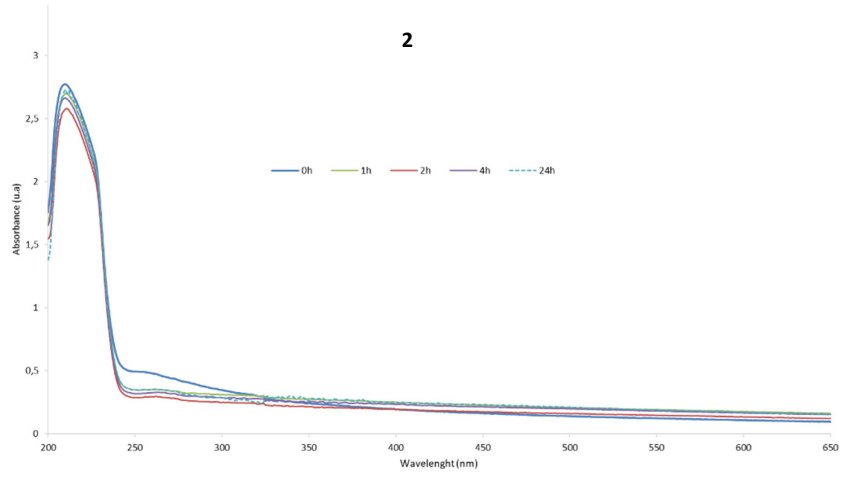


Figure S26. ¹³C{¹H}-APT NMR spectrum of compound **10** in DMSO-d₆.

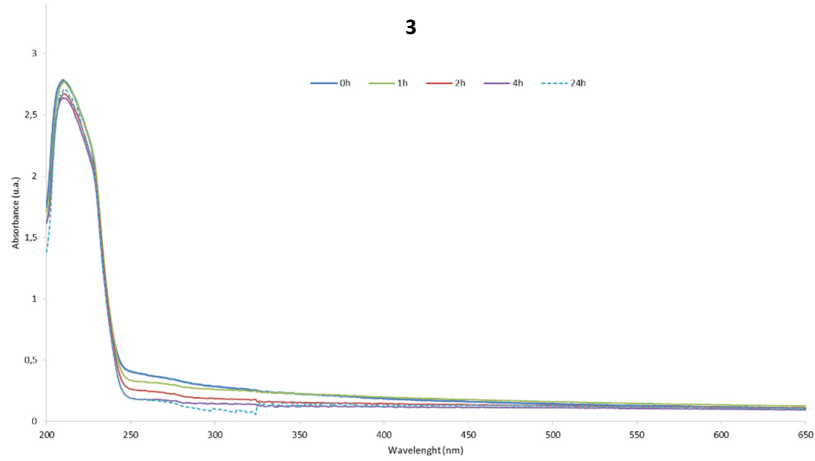
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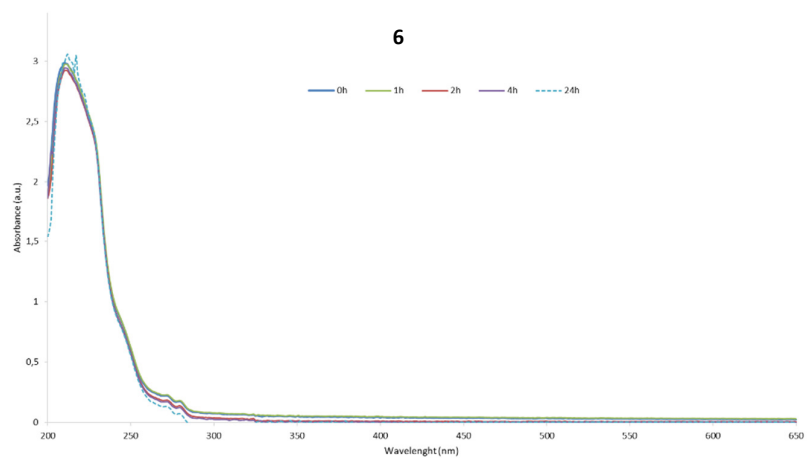
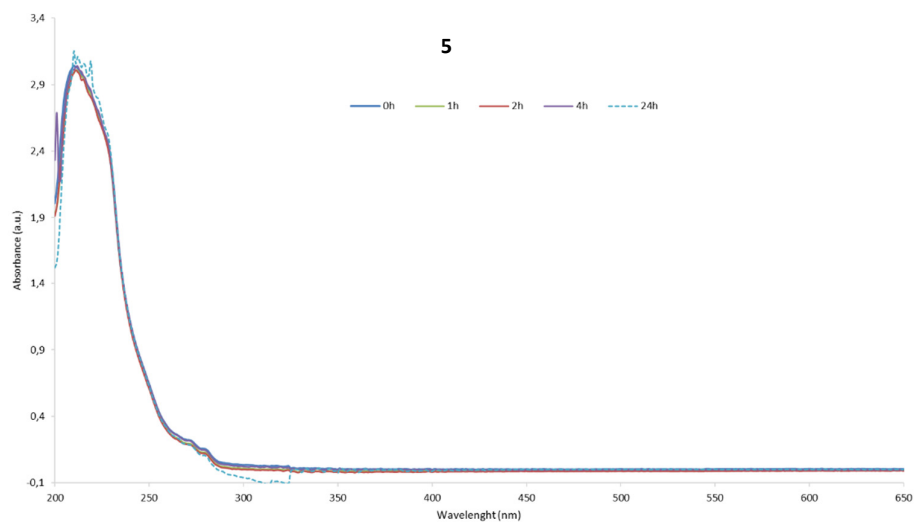
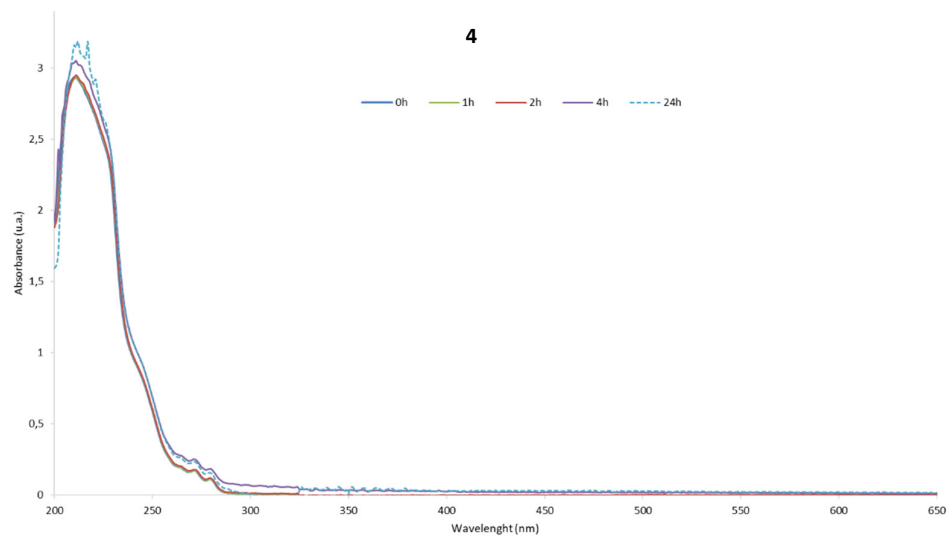


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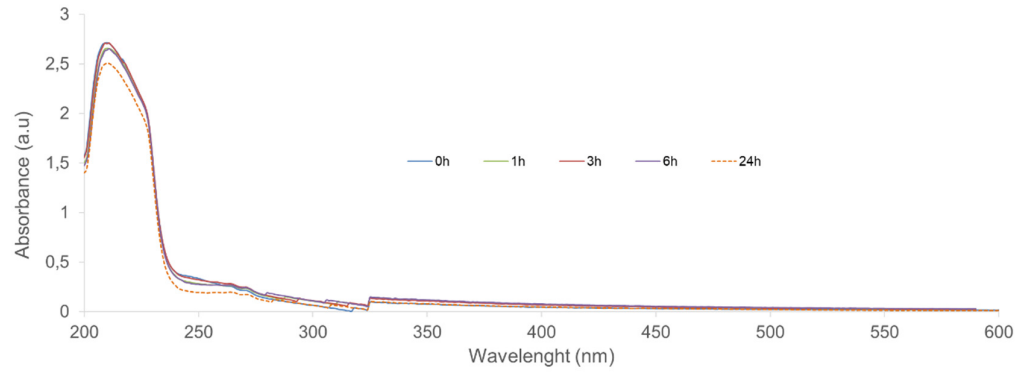


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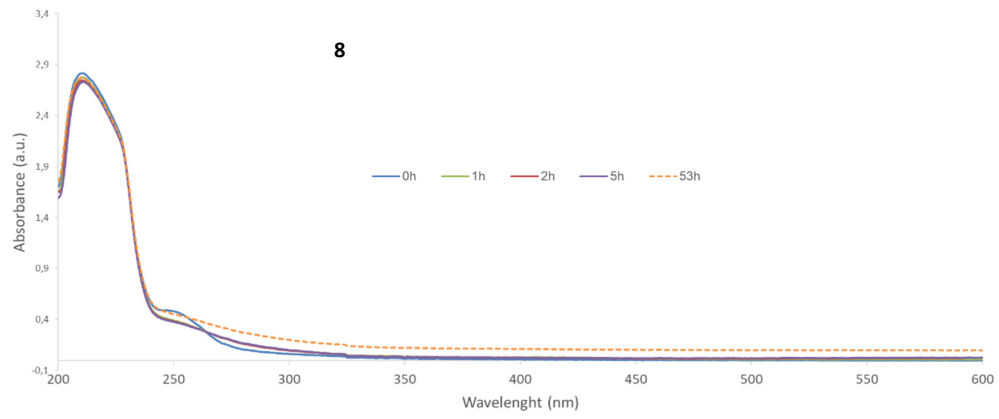




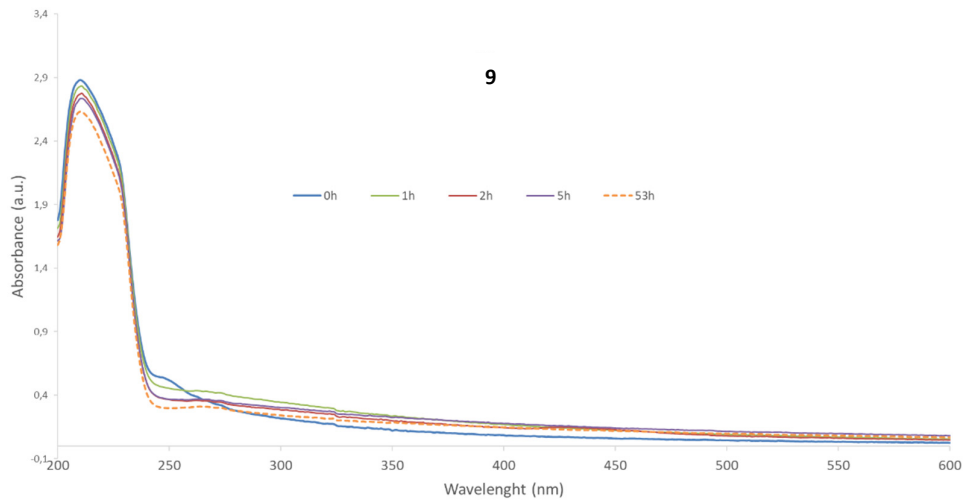
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8



9



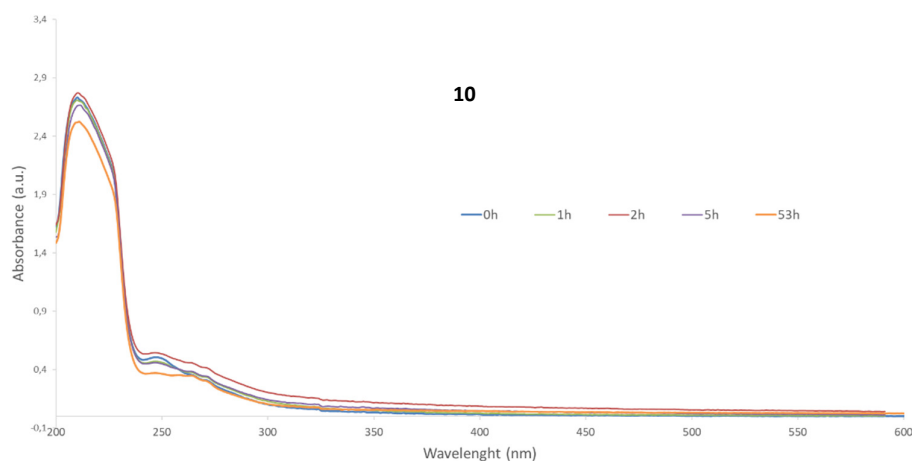


Figure S27. UV-Vis spectra of **1-10** complexes recorded at different times for 24 h to test their stability under physiological conditions. [complex] = 50 μ M diluted in PBS at 37 $^{\circ}$ C.

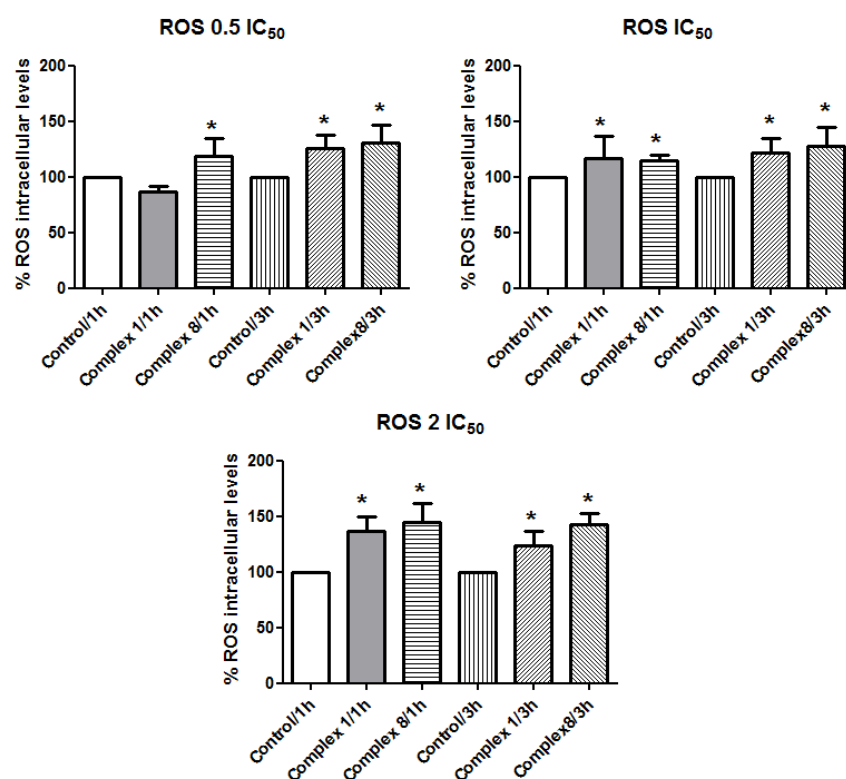


Figure S28. Measurement of intracellular levels of ROS after treatment of Caco-2 cells with complexes **1** and **8** at different concentrations and times. * $p < 0.05$ compared to respective control.