

Supplementary Data

This supplementary data is a part of a paper entitled “Synthesis, Multi-Identifications of Some Complexes with a Newly Ligand (4-FADPD) Derived from Caffeine and Evaluation of the Anticancer Activity of Au(III) Nano-Complex”.

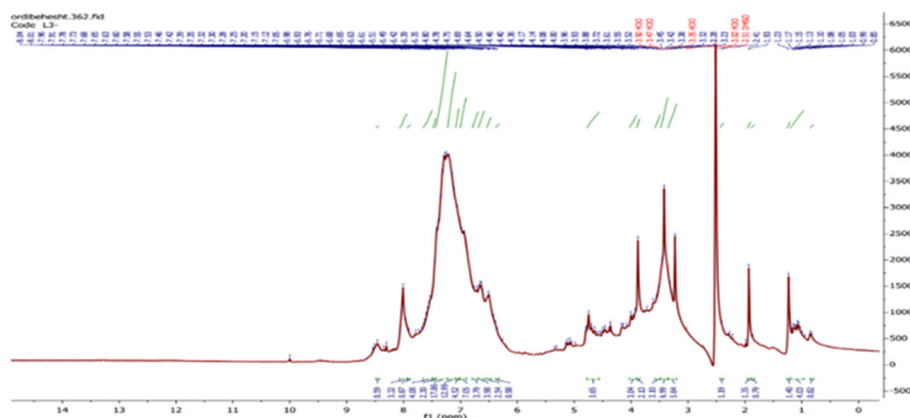


Fig S1. ¹H-NMR spectrum of ligand (4-FADPD)

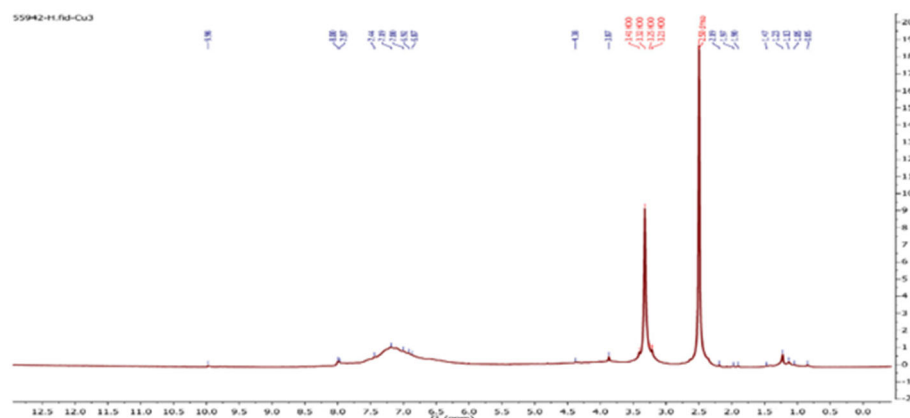


Fig S2. ¹H-NMR spectrum of [Cu(L)Cl₂(H₂O)] complex

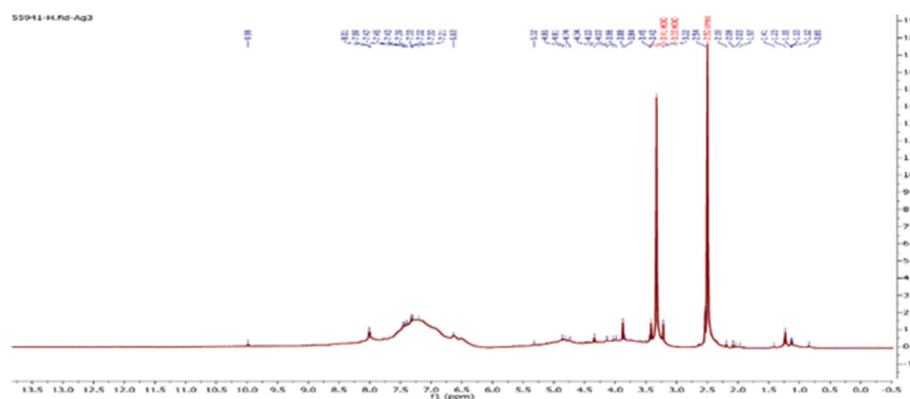


Fig S3. ¹H-NMR spectrum of [Ag(L)H₂O]NO₃ complex

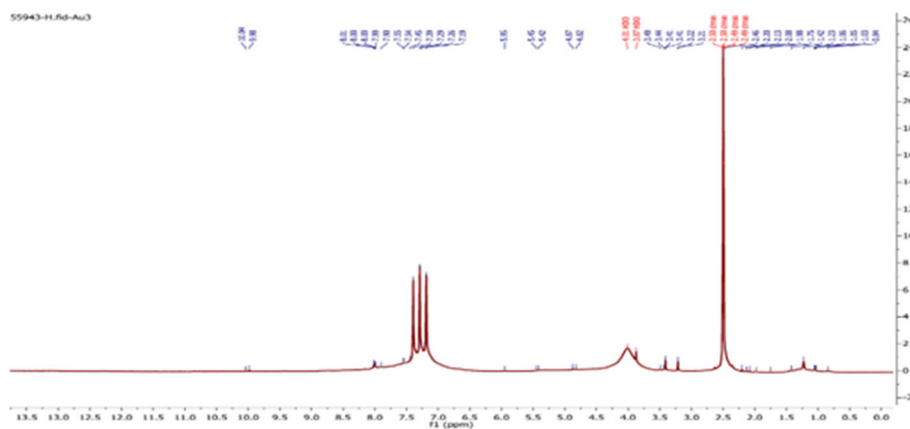
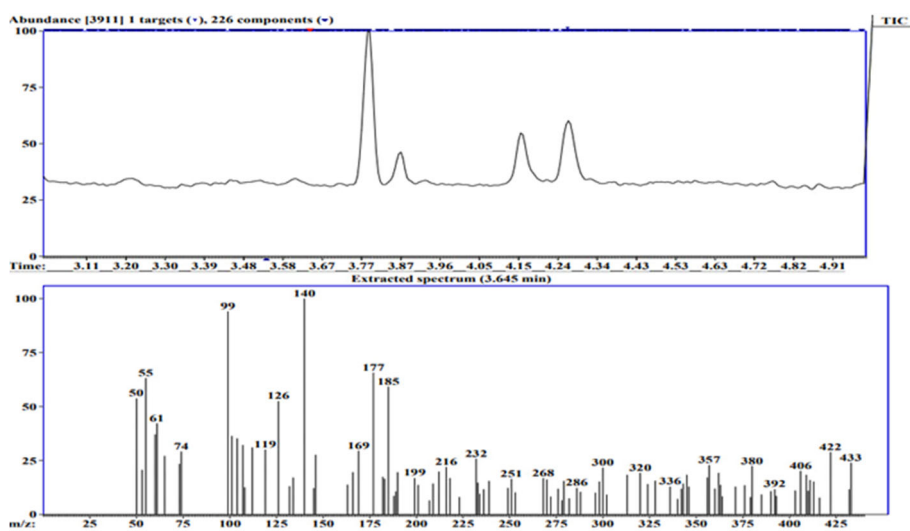
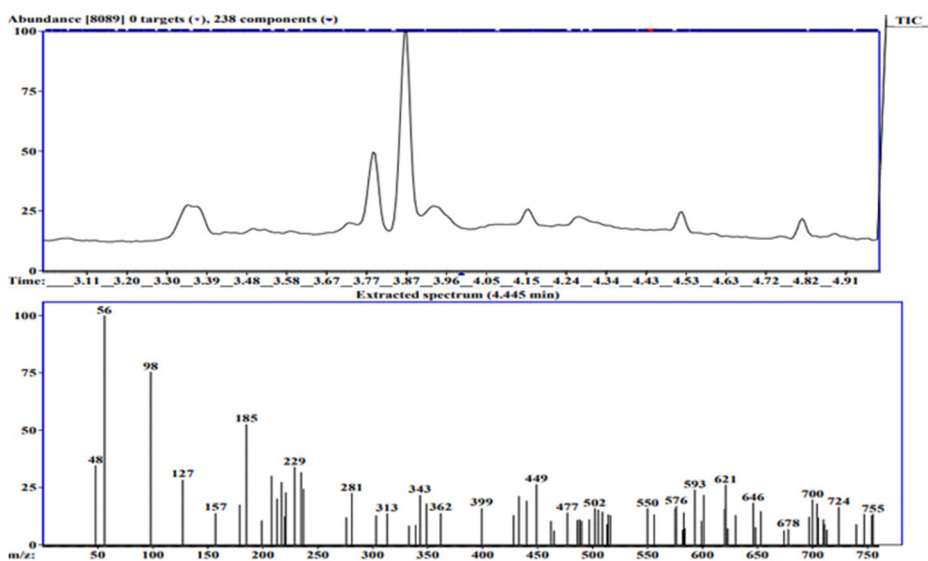
Fig S4. ¹H-NMR spectrum of [Au(L)Cl]Cl₂·H₂O complex

Fig S5. Mass spectrum of ligand (4-FADPD)

Fig S6. Mass spectrum of the [Au(L)Cl]Cl₂·H₂O complex

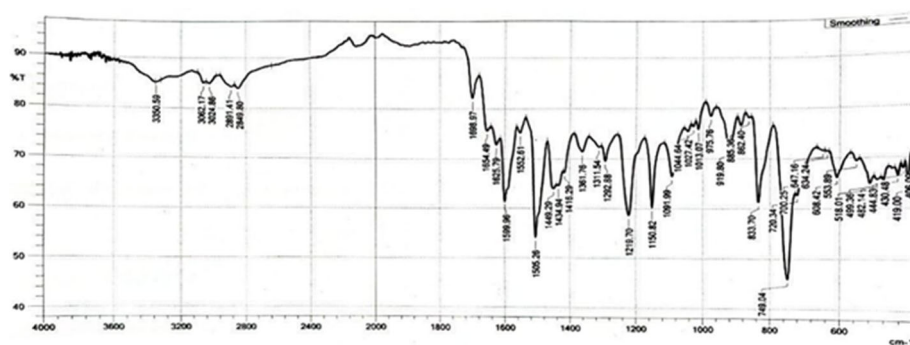


Fig S7. FTIR spectrum of ligand (4-FADPD)

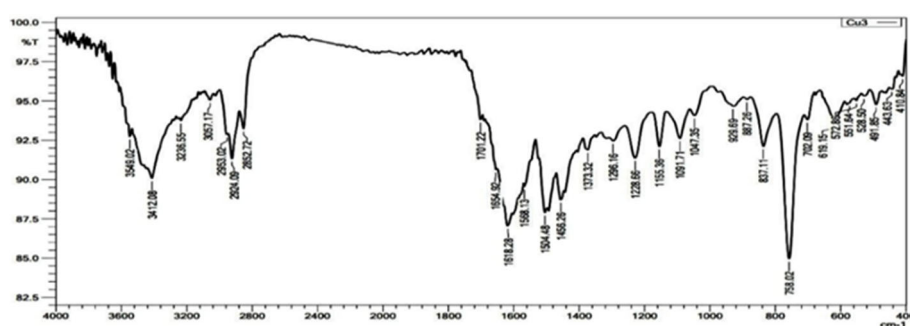


Fig S8. FTIR spectrum of [Cu(L)Cl₂·H₂O] complex

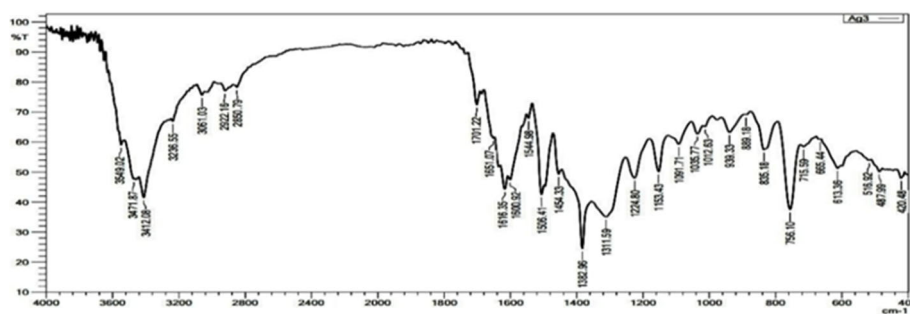


Fig S9. FTIR spectrum of [Ag(L)H₂O]NO₃ complex

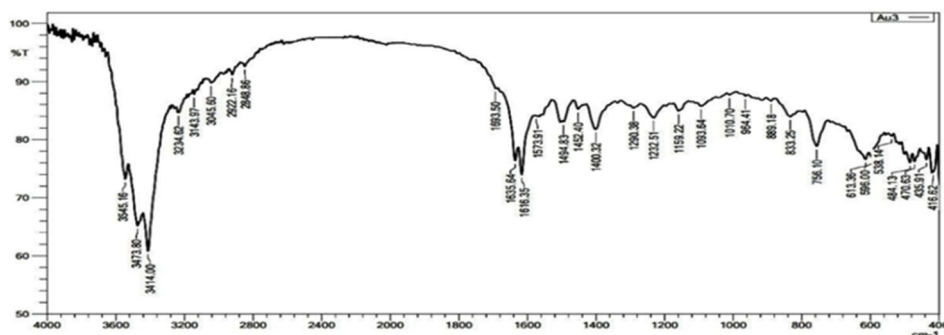


Fig S10. FTIR spectrum of [Au(L)Cl]Cl₂·H₂O complex

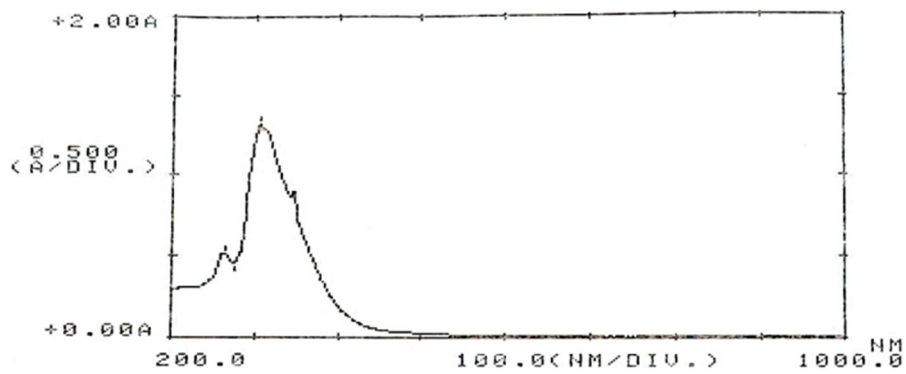


Fig S11. The UV-Vis spectrum of the ligand (4-FADPD)

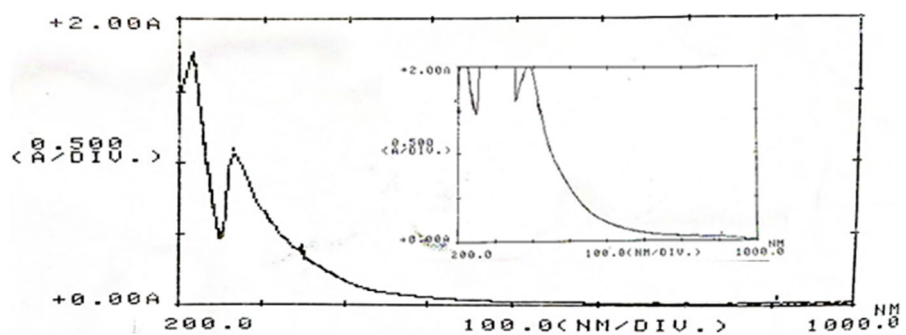


Fig S12. The UV-vis spectrum of the [Cu(L)Cl₂·H₂O] complex

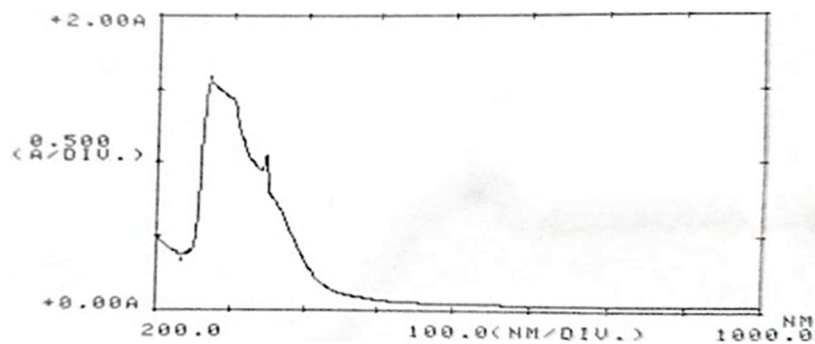


Fig S13. The UV-vis spectrum of the [Ag(L)H₂O]NO₃ complex

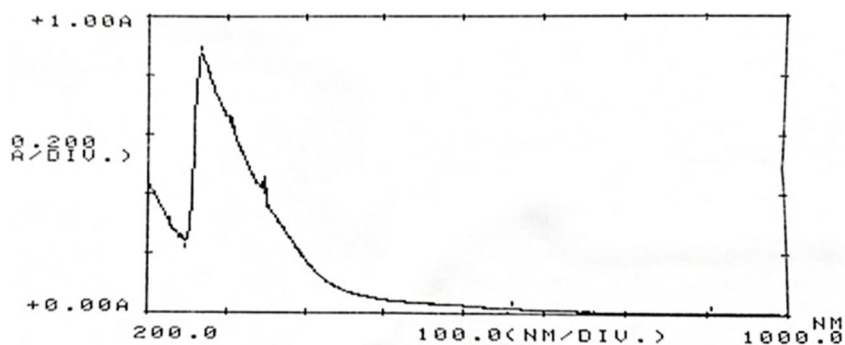


Fig S14. The UV-Vis spectrum of the [Au(L)Cl]Cl₂·H₂O complex

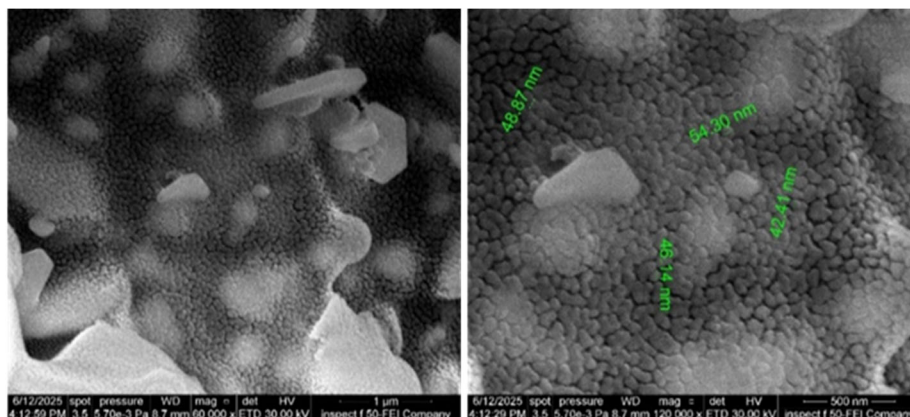


Fig S15. FESEM images for $[\text{Au}(\text{L})\text{Cl}]\text{Cl}_2 \cdot \text{H}_2\text{O}$ complex, right: 1 μm , left: 500 nm

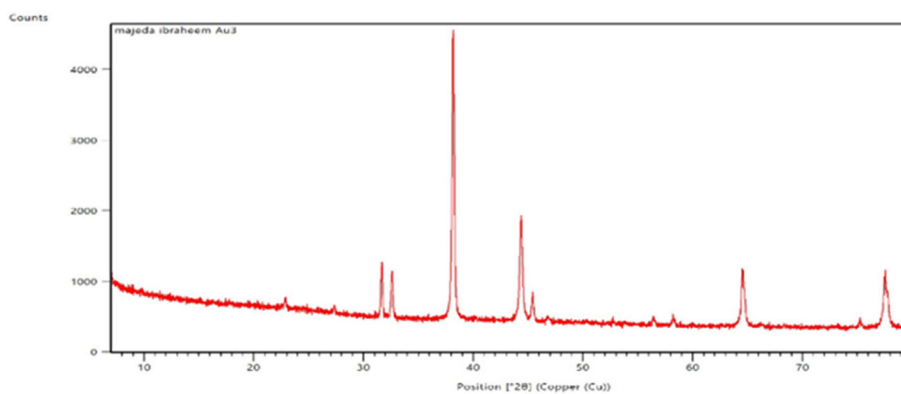


Fig S16. XRD of $[\text{Au}(\text{L})\text{Cl}]\text{Cl}_2 \cdot \text{H}_2\text{O}$ complex

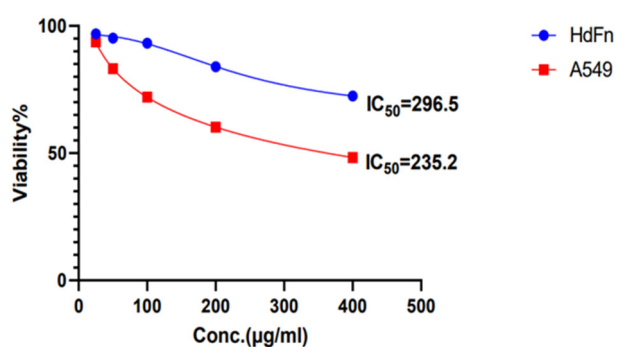
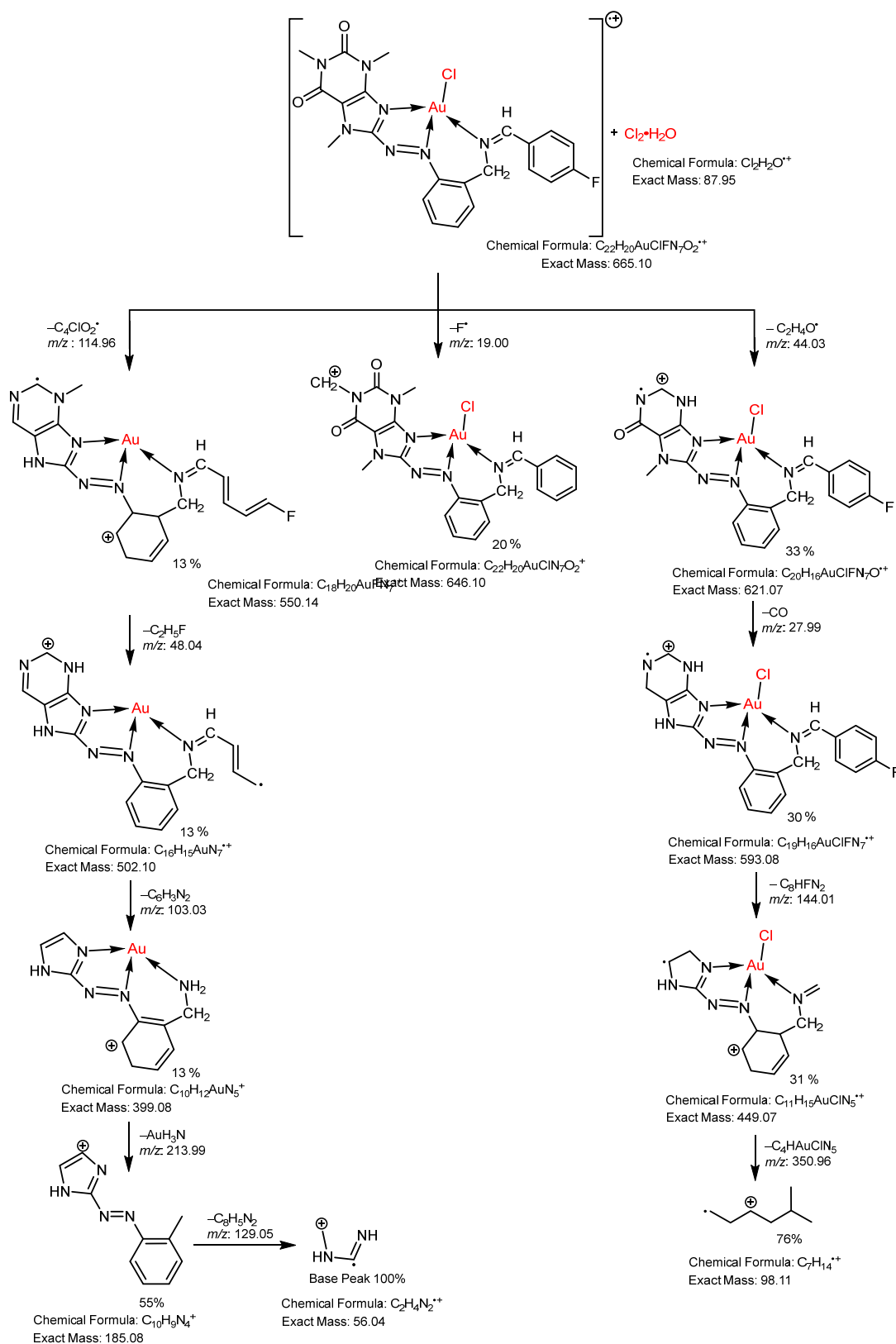


Fig S17. The nano-complex $[\text{Au}(\text{L})\text{Cl}]\text{Cl}_2 \cdot \text{H}_2\text{O}$ half-inhibitory concentration (IC_{50}) for A549 and HcFn



Scheme S2. Mass fractionation pathways of $[Au(L)Cl]Cl_2 \cdot H_2O$ complex