

Supporting information

Gold–chitosan composite with low symmetry zinc phthalocyanine for enhanced singlet oxygen generation and improved photodynamic therapy activity

Edith Dube, David O. Oluwole, E. Prinsloo, Tebello Nyokong*

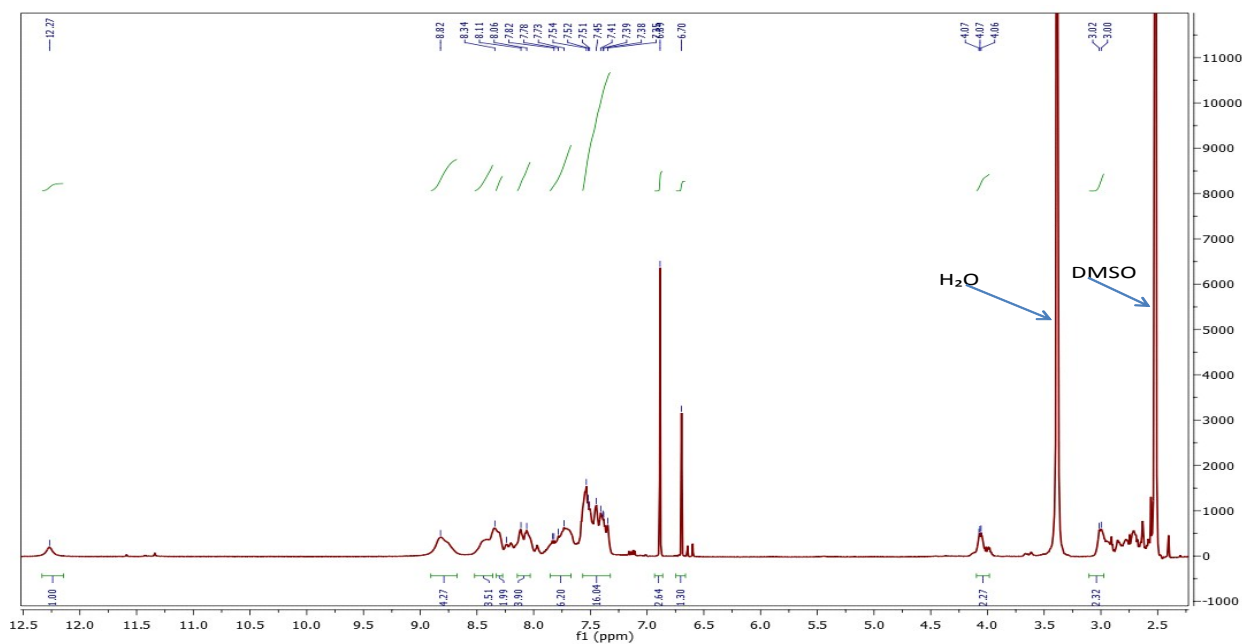


Fig. S1. ¹H NMR of complex 3 in DMSO.

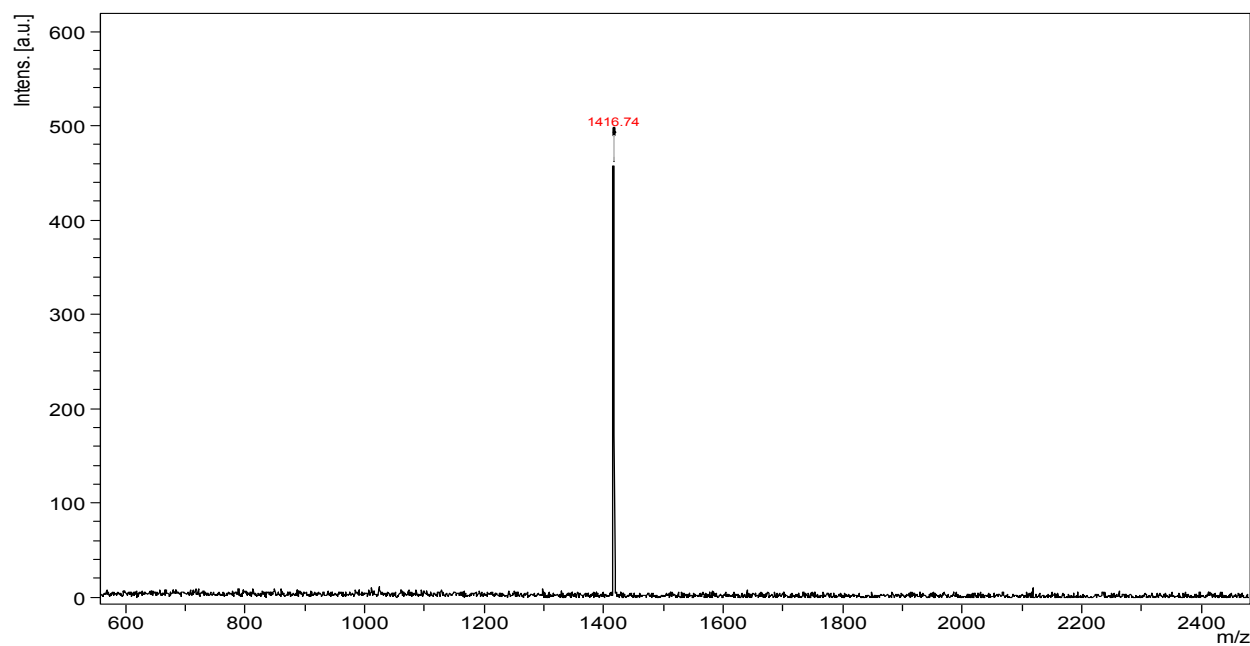
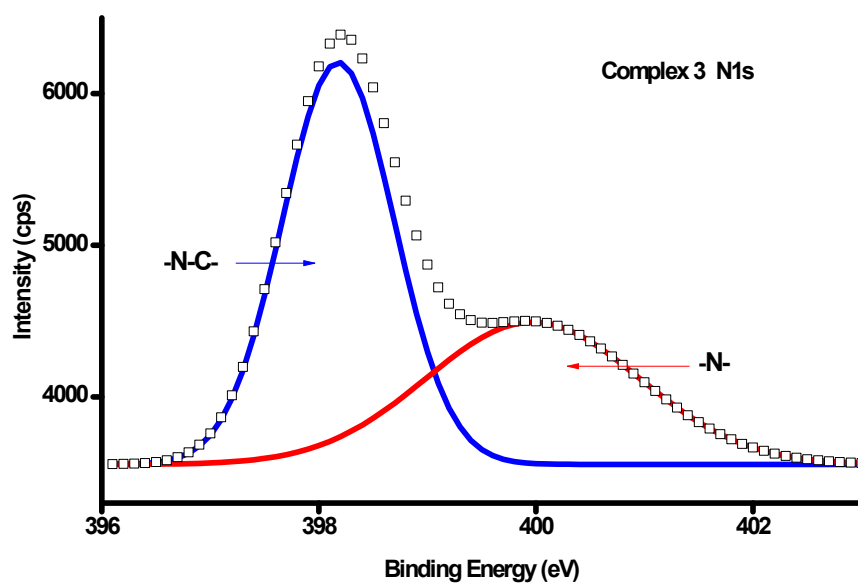
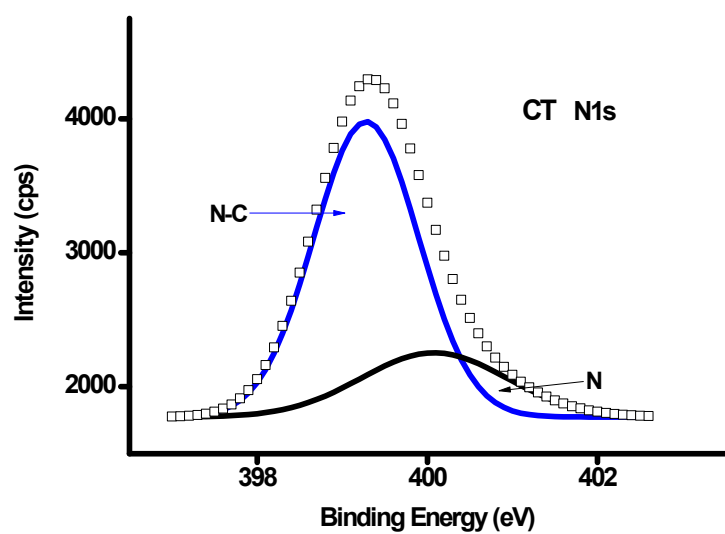
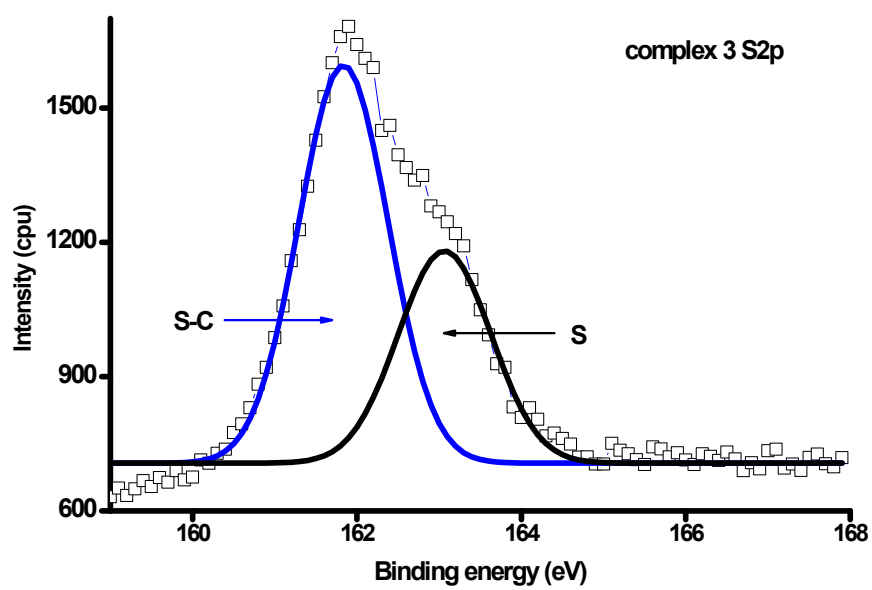
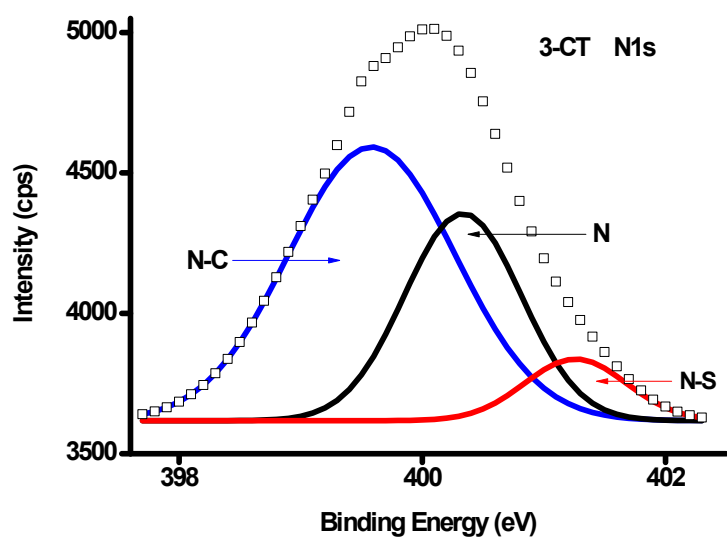


Fig. S2. MS (Maldi-TOF) of complex 3.





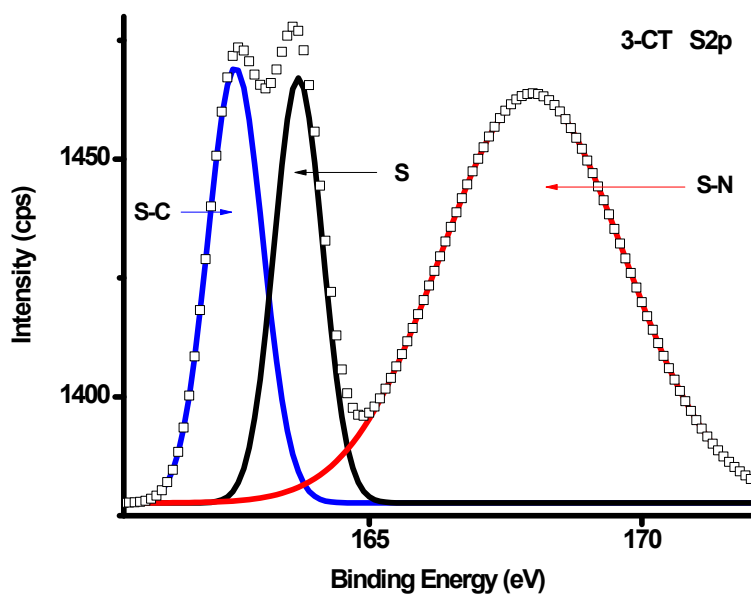
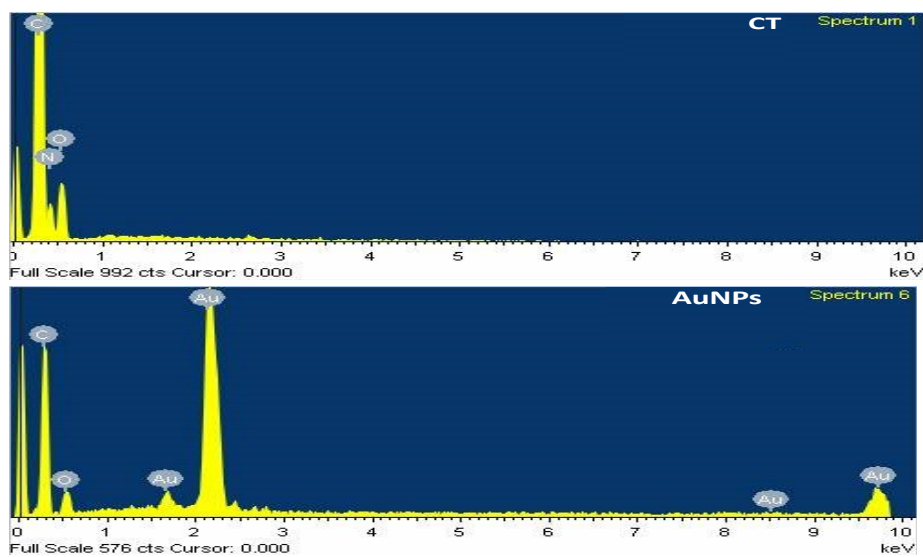


Fig. S3. XPS N1sand S2p spectra forCT, complex 3 and 3-CT.



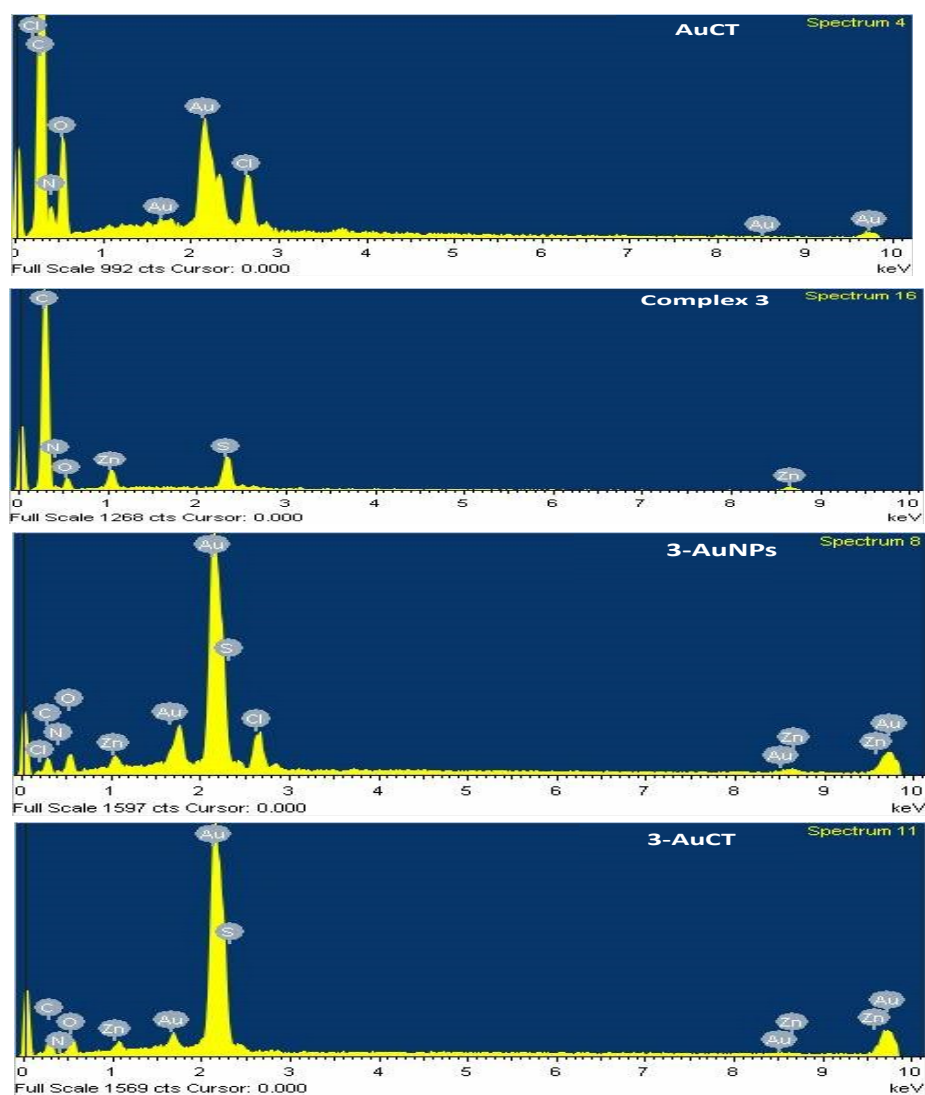


Fig. S4.EDX spectra for CT, AuNPs, AuCT, complex 3,3-AuCT and 3-AuNPs.

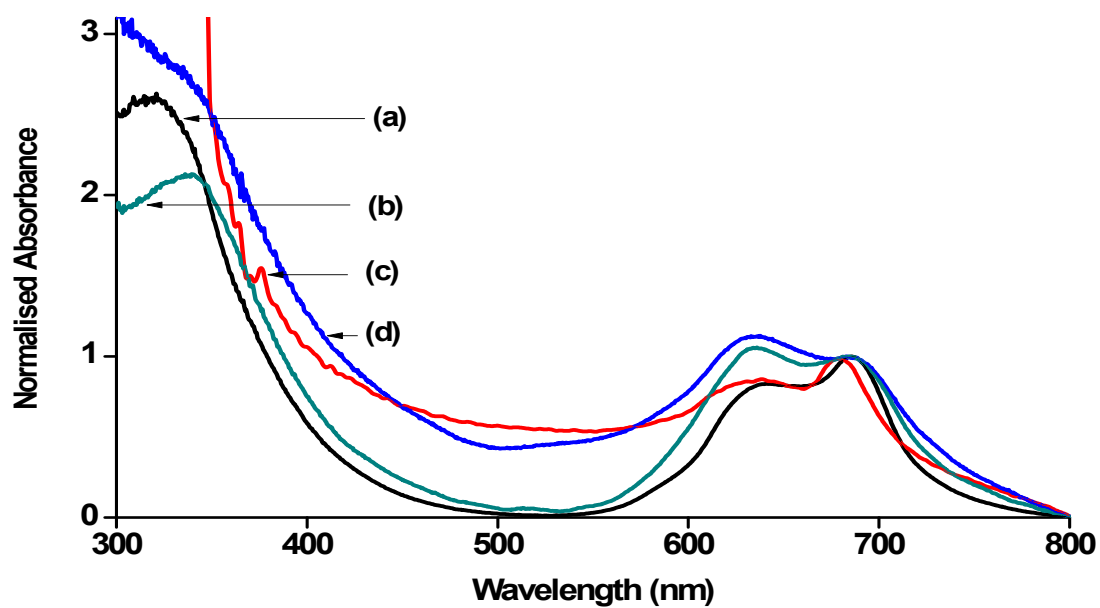


Fig. S5. Absorption spectra for **3**(a), **3**-CT (b), **3**-AuNPs (c) and **3**-AuCT (d). For **3**-CT and **3**-AuCT, the solvent is water containing 1% acetic acid together with 1.6% DMSO. For **3** and **3**-AuNPs, the solvent is water containing 1.6% DMSO.

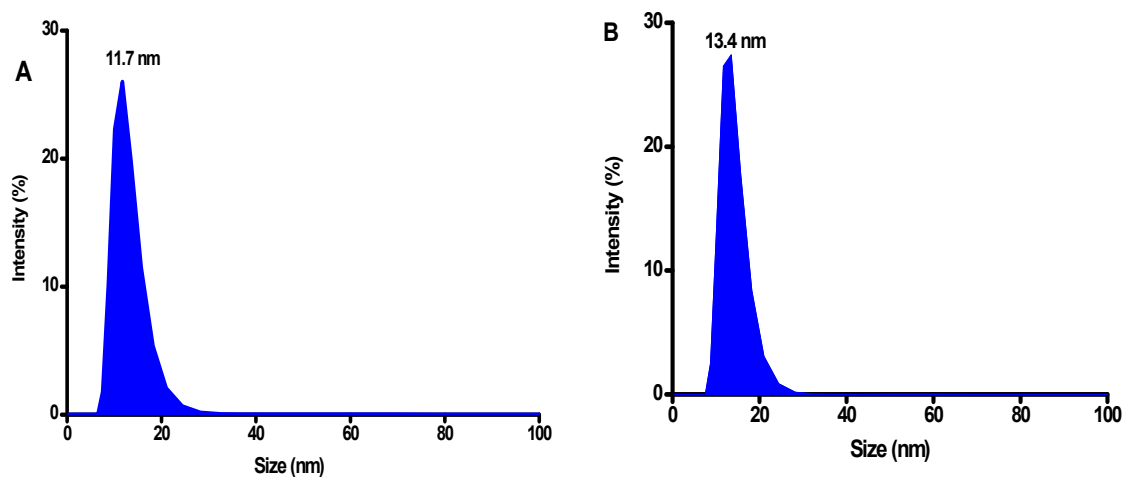


Fig.S6. Dynamic light scattering of AuNPs alone (A) and **3**-AuNPs (B).

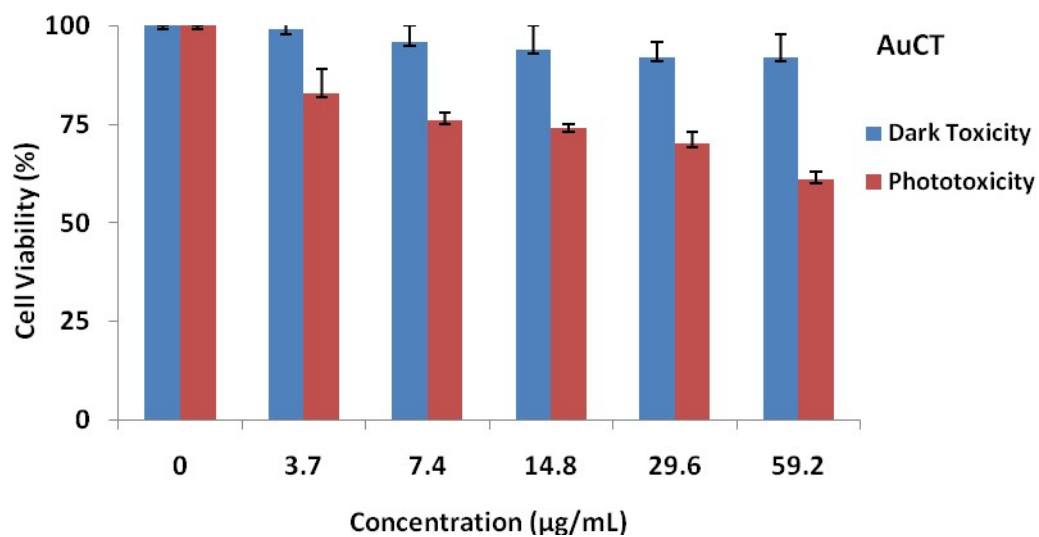


Fig. S7. Histograms for % cell viability in dark and after radiation for AuCT.

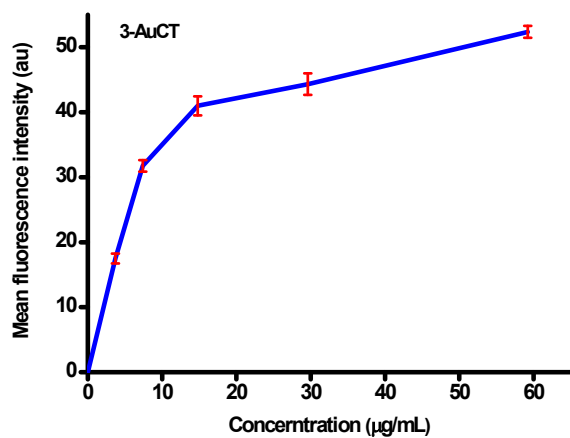
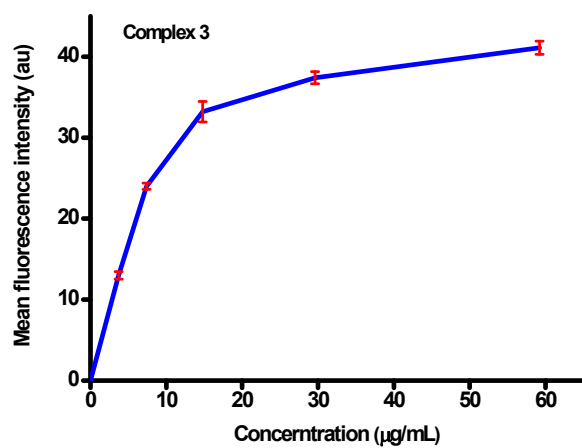


Fig. S8. Cellular uptake of complex 3 and 3-AuCT as a function of concentration.