

Supplementary Material

In vitro and in vivo anticancer activity of thiourea tripyridyl dinuclear Cu (II) complex

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Fig. S4 Agarose gel electrophoresis patterns for the cleavage of pBR322 DNA by the ligand at 37 °C after 3 h of incubation. Lane 1, DNA control; lane 2, DNA + H₂O₂ (1 μL); lane 3, DNA + the ligand (40 μM); lanes 4 - 8, DNA + H₂O₂ (1 μL) + the ligand (5, 10, 15, 20 and 40 μM , respectively).

Fig. S5 a) The survival curve of mice; b) Determination of the in vivo acute toxicity (LD₅₀) of complex **1**.

Fig. S6 The structure of the ligand Hdppc.

Fig. S7 ESI-MS spectrum of complex **1**.

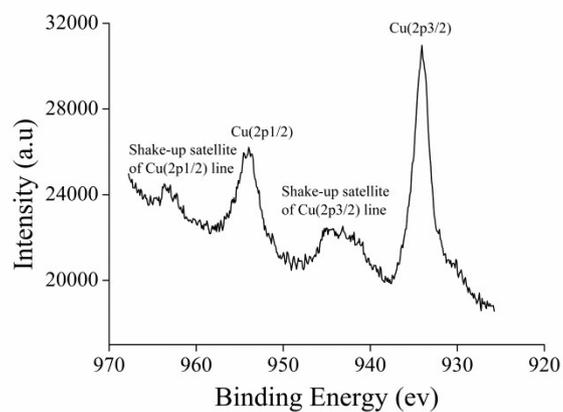


Fig. S1 The XPS Cu(2p) spectrum of the complex **1**.

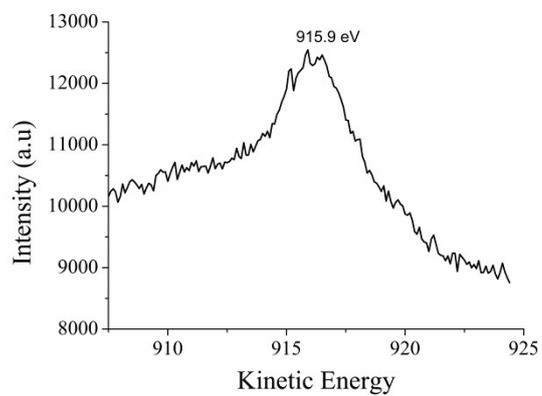


Fig. S2 Auger spectrum of Cu in complex **1**.

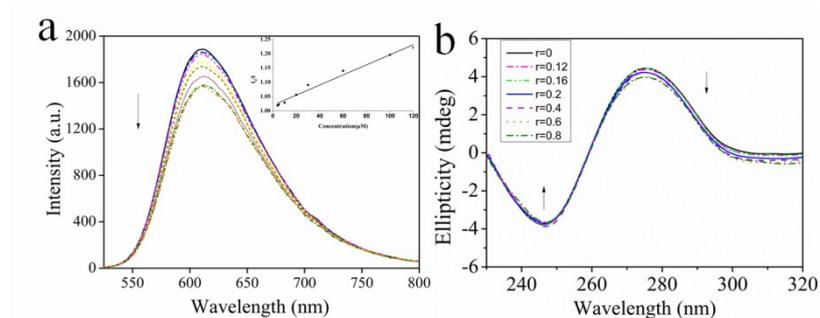


Fig. S3 a) Fluorescence quenching curves of EB (10 μM) bound to DNA (100 μM) by the ligand. The arrow shows the intensity changes upon increasing complex concentration. Inset: Stern - Volmer quenching curves of the fluorescence titration of the ligand. b) CD spectra of CT-DNA (50 μM) in the absence and presence of the ligand.

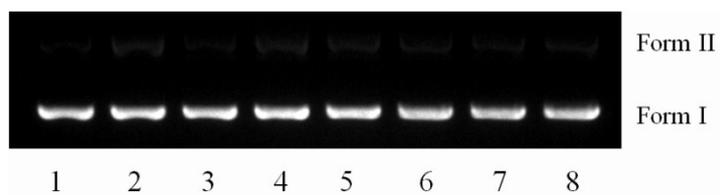


Fig. S4 Agarose gel electrophoresis patterns for the cleavage of pBR322 DNA by the ligand at 37 $^{\circ}\text{C}$ after 3 h of incubation. Lane 1, DNA control; lane 2, DNA + H_2O_2 (1 μL); lane 3, DNA + the ligand (40 μM); lanes 4 - 8, DNA + H_2O_2 (1 μL) + the ligand (5, 10, 15, 20 and 40 μM , respectively).

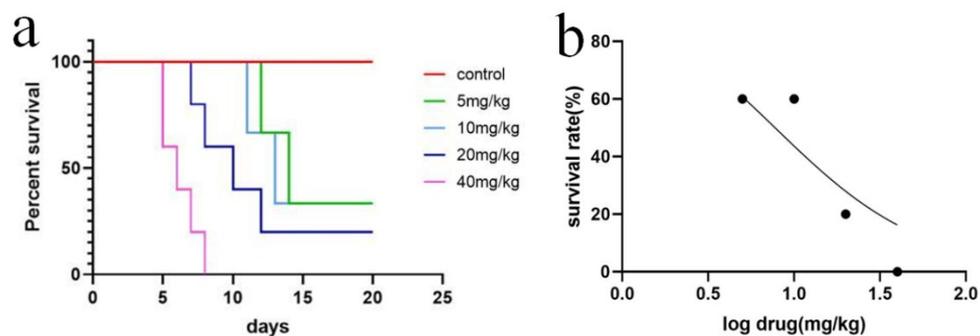


Fig. S5 a) The survival curve of mice; b) Determination of the in vivo acute toxicity (LD_{50}) of complex 1.

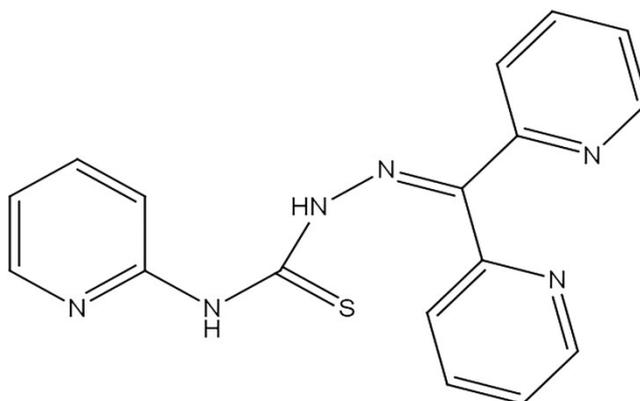


Fig. S6 The scheme of the ligand Hdppc.

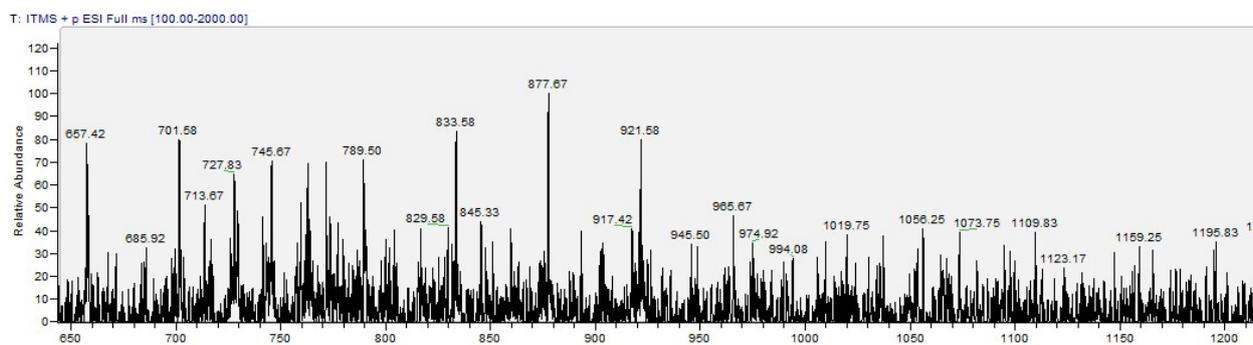


Fig. S7 ESI-MS spectrum of complex 1.