

Electronic Supplementary Information

Thermodynamic investigation of interaction between $[(\eta^6\text{-p}\text{-cymene})\text{Ru}(\text{benzaldehyde-N4-phenylthiosemicarbazone})\text{Cl}]\text{Cl}$ anticancer drug and ctDNA: Multispectroscopic and electrochemical studies

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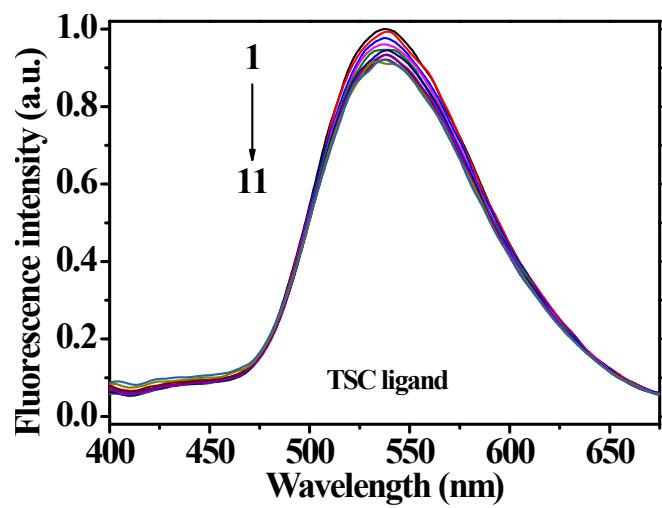


Fig. S1. Fluorescence spectra of ctDNA–BH complex with various concentrations of TSC ligand.
 $c(\text{ctDNA}) = 9.4 \times 10^{-5} \text{ mol L}^{-1}$; $c(\text{BH}) = 1.67 \times 10^{-5} \text{ mol L}^{-1}$; $c(\text{TSC ligand})/(10^{-6} \text{ mol L}^{-1})$, 1–11:
0, 2, 4, 6, 8, 10, 12, 14, 16, 18 and 20.

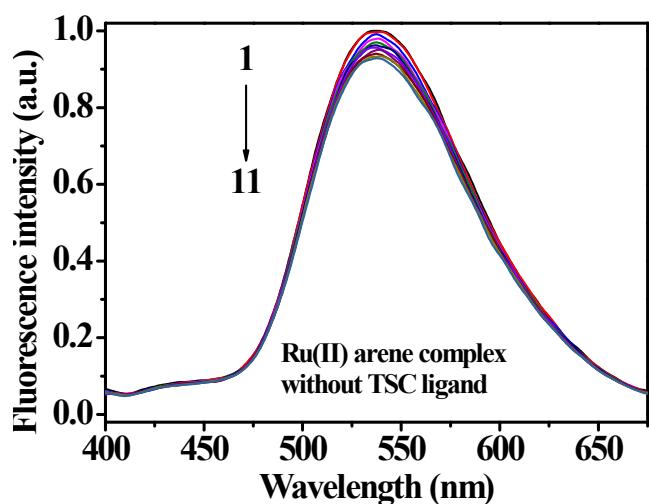


Fig. S2. Fluorescence spectra of ctDNA–BH complex with various concentrations of Ru(II) arene complex without TSC ligand. $c(\text{ctDNA}) = 9.4 \times 10^{-5} \text{ mol L}^{-1}$; $c(\text{BH}) = 1.67 \times 10^{-5} \text{ mol L}^{-1}$; $c(\text{Ru(II) arene complex without TSC ligand})/(10^{-6} \text{ mol L}^{-1})$, 1–11: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10.

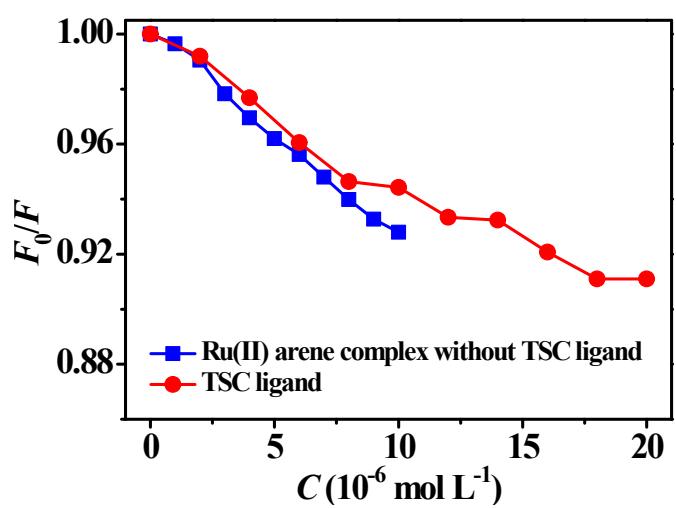


Fig. S3. Fluorescence quenching effect of various concentrations of Ru(II) arene complex without TSC ligand and TSC ligand.