

SUPPLEMENTARY MATERIAL

Synthesis and Characterization of Ru^{II} Polypyridyl Complexes: DNA-Binding, Photocleavage, Topoisomerase I and II Inhibitory Activity

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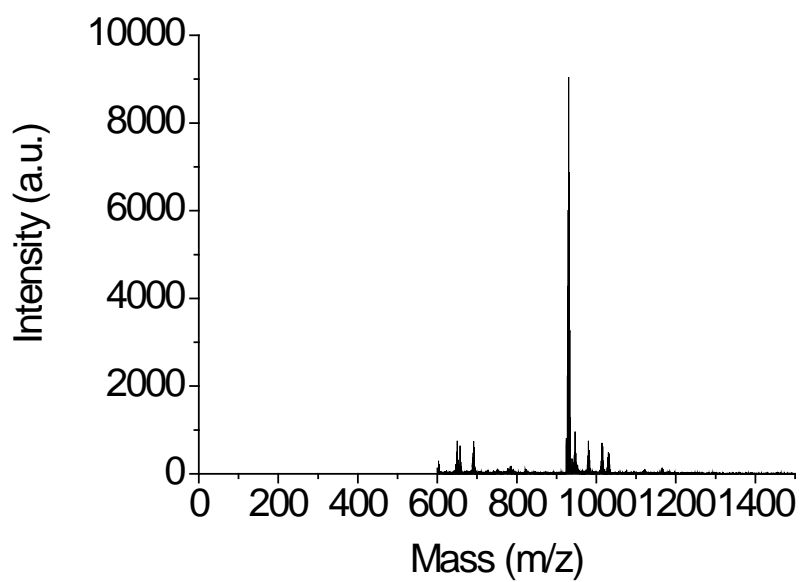
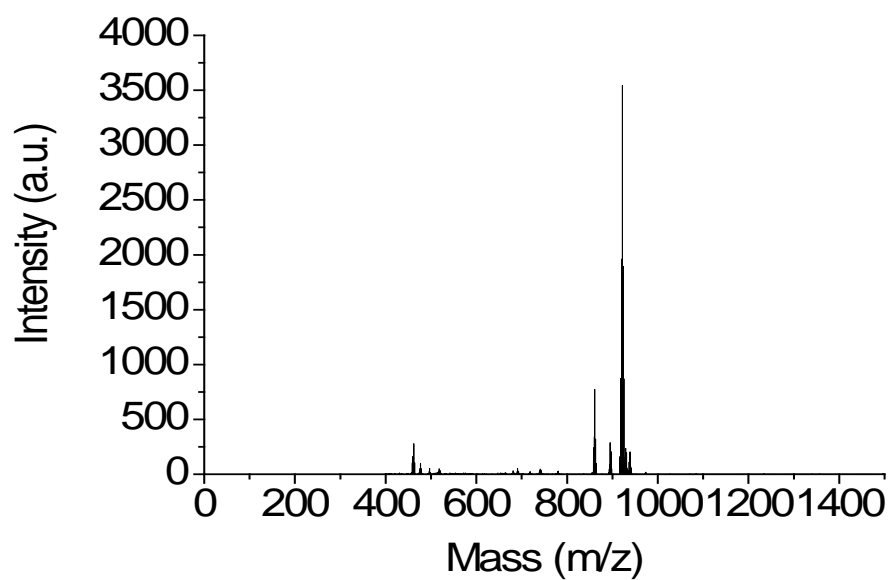


Fig. S1. Maldi-Tof mass spectrometry of Ru1 (top) and Ru2 (bottom) in CH₃COOH.

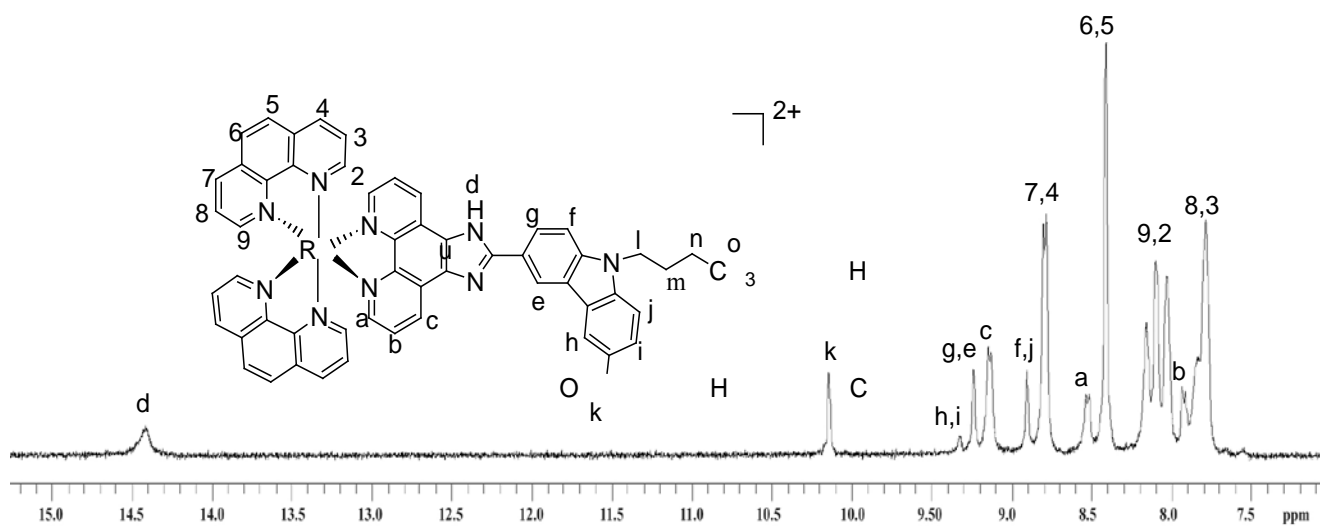
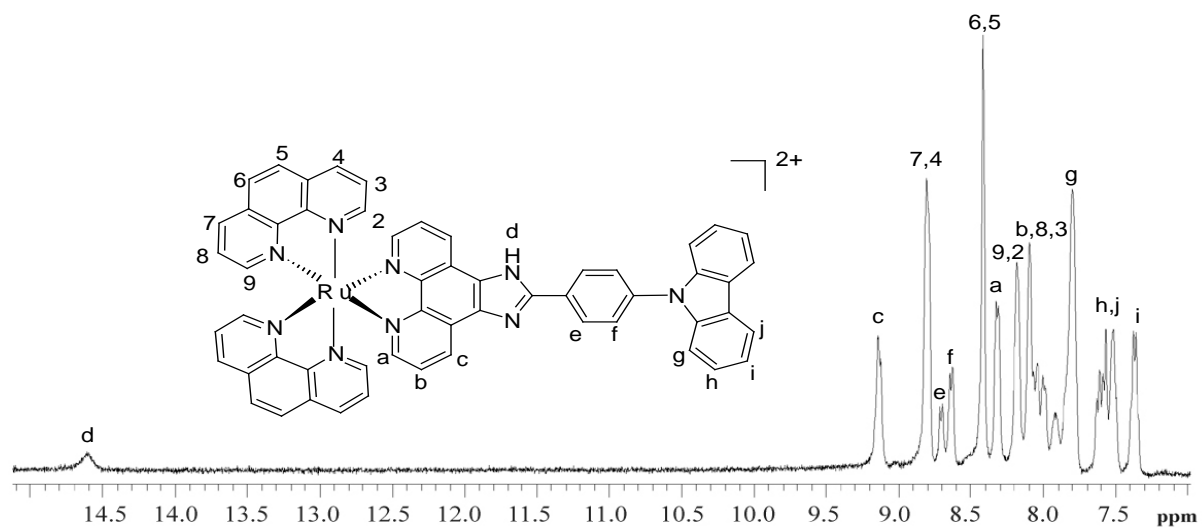


Fig. S2. ^1H NMR spectra of complexes **1** (top) and **2** (bottom) in d_6 -DMSO.

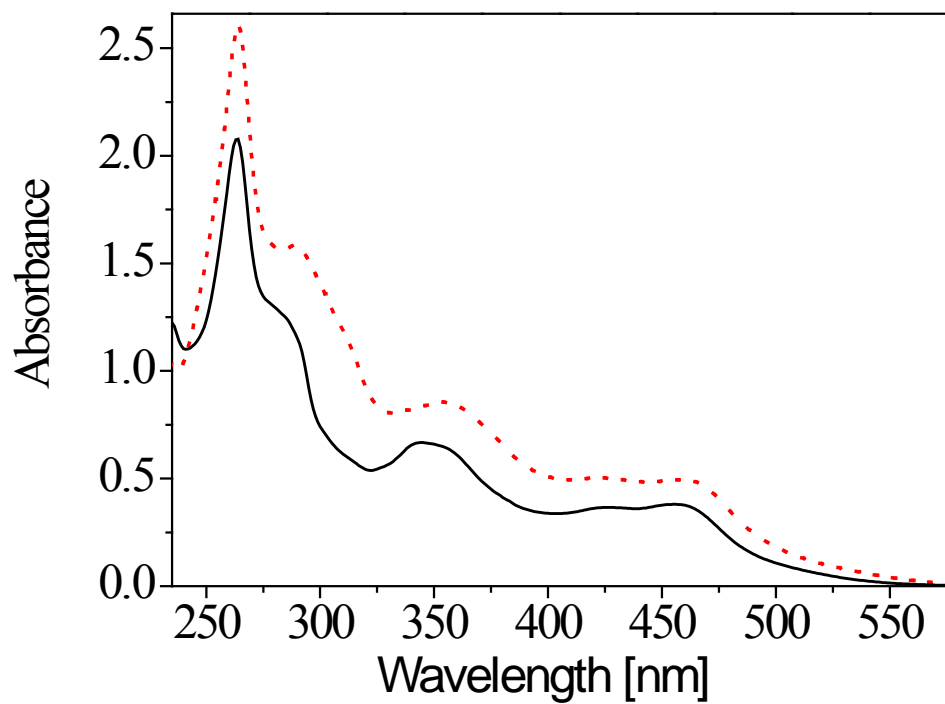


Fig. S3. Absorption spectrum of Ru1 (top) and Ru2 (bottom) in CH₃CN.

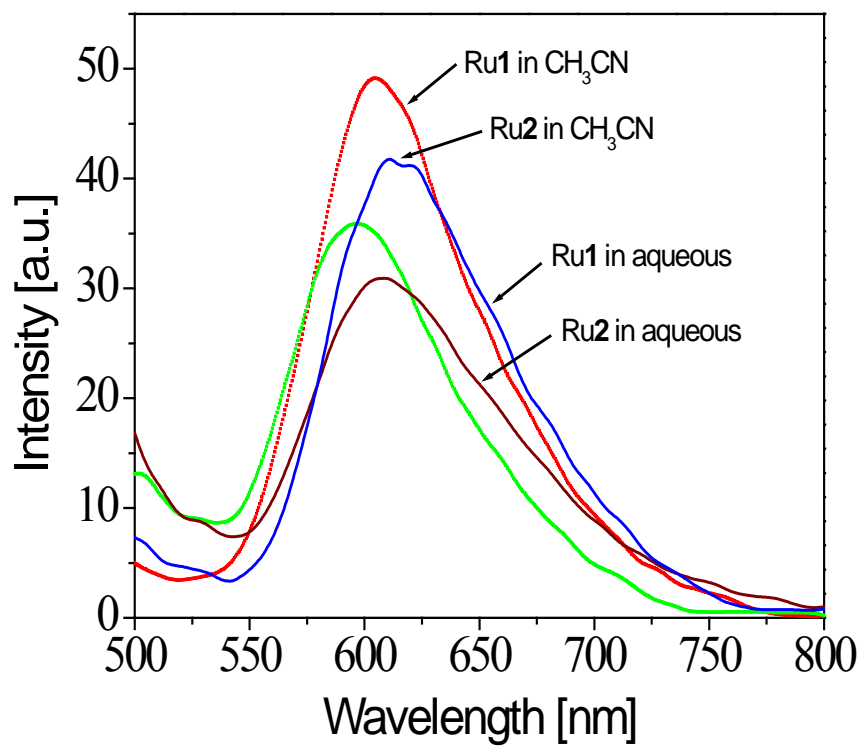


Fig. S4. The fluorescence spectra of complexes Ru1 and Ru2 in CH₃CN and aqueous, respectively.

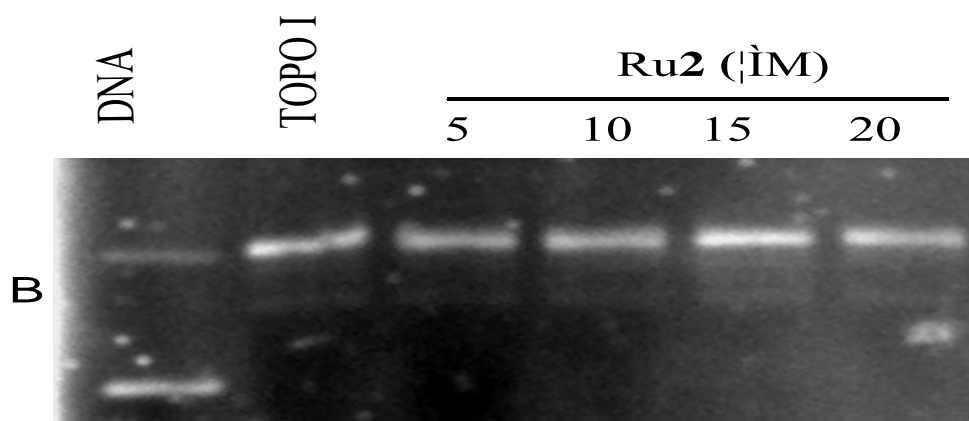


Fig. S5. Effects of different concentrations of Ru2 on the activity of DNA Topo I.

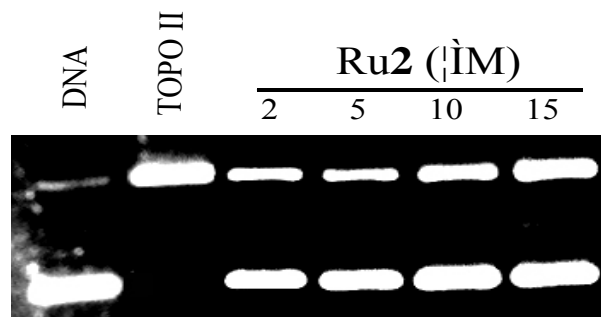


Fig. S6. Effects of different concentrations of Ru2 on the activity of DNA Topo II α .

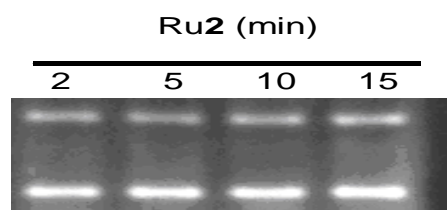


Fig. S7. The time dependence of Topo II DNA strand passage assays in the presence of Ru2.