

Supplementary Information

Ruthenium(II) Complexes Containing Anti-Inflammatory Drugs as Ligands: Synthesis, Characterization and *in vitro* Cytotoxicity Activities on Cancer Cell Lines

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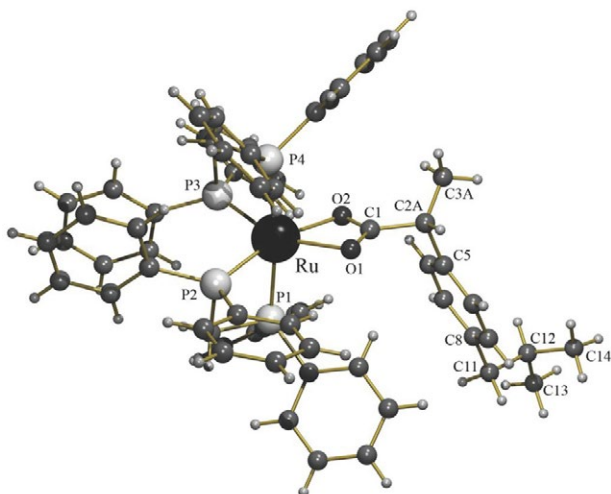


Figure S1. Component with higher occupation factor (68.4%) in the crystal structure of $[\text{Ru}(\text{ibu})(\text{dppm})_2]^+$.

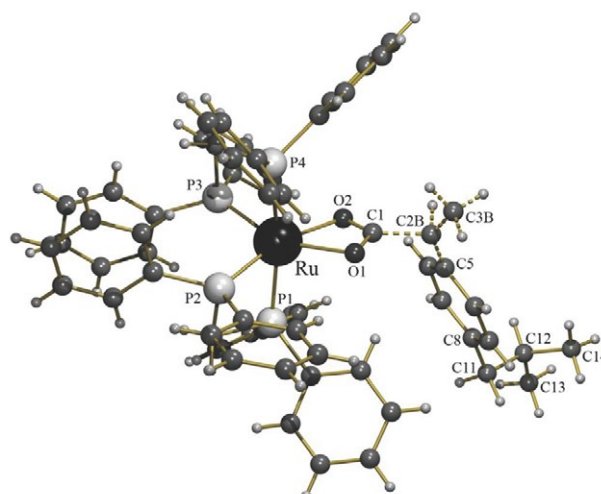


Figure S2. Component with lower occupation factor (31.6%) in the crystal structure of $[\text{Ru}(\text{ibu})(\text{dppm})_2]^+$.

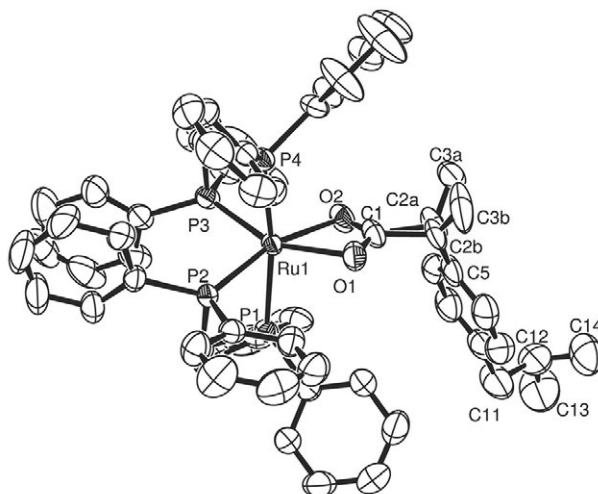


Figure S3. Ellipsoid representation of the molecular structure of $[\text{Ru}(\text{ibu})(\text{dppm})_2]^+$.

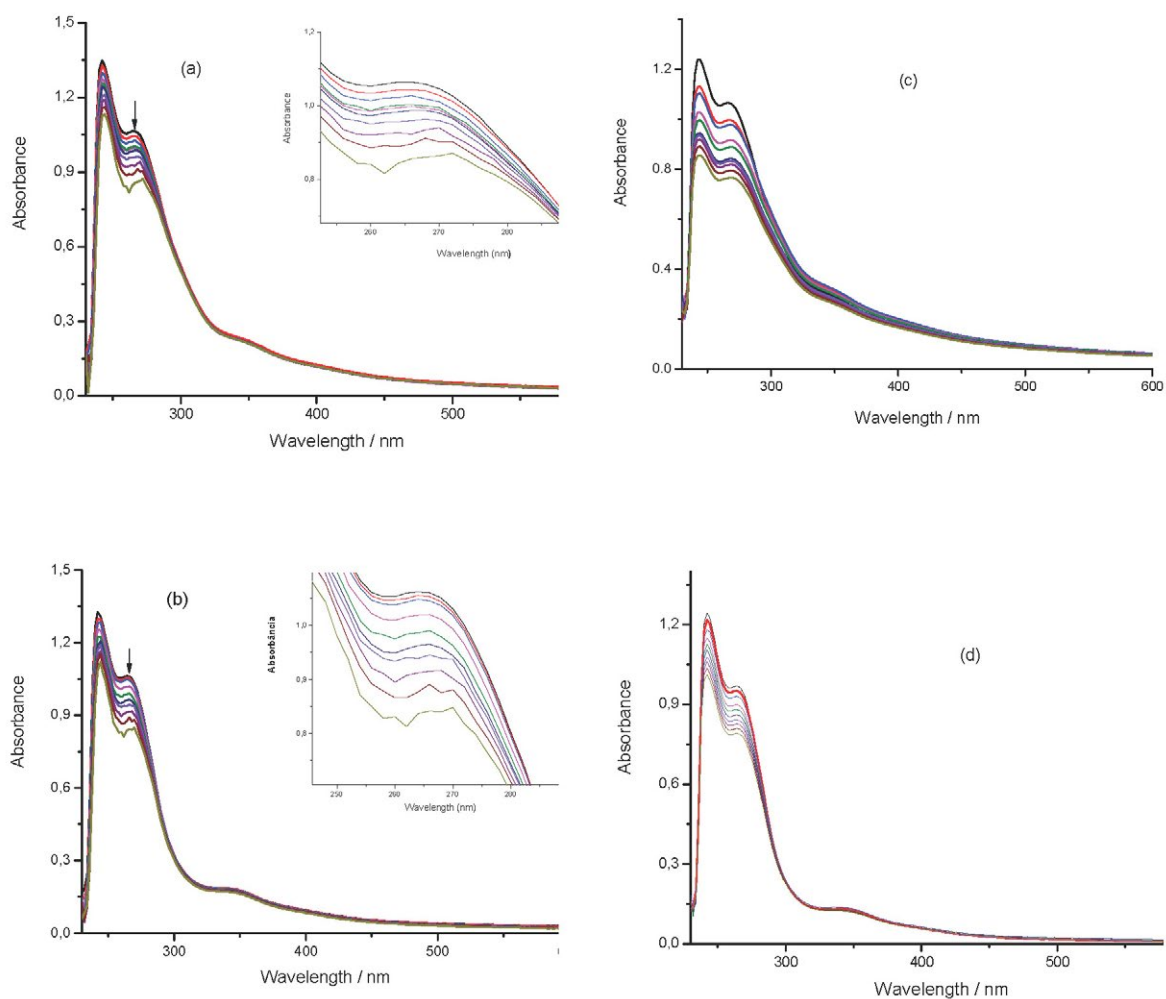


Figure S4. Absorption spectra of complexes in tris-HCl buffer and 2% DMSO upon addition of ct-DNA, $[\text{Ru}] = 20 \mu\text{mol L}^{-1}$, $[\text{DNA}] = 0\text{-}354 \mu\text{mol L}^{-1}$, (a) complex **1** and (b) complex **2**. Arrow shows the band of the spectra observed upon the increase of DNA concentration. The decrease of the band at 264 nm was observed in insert. In (c) and (d) it is shown the absorption spectra of complexes **1** and **2**, respectively, upon addition of tris-HCl buffer in the absence of ct-DNA.

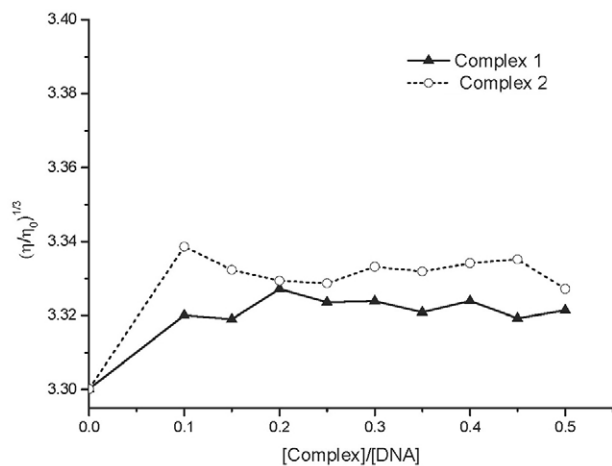


Figure S5. Effect of increasing amounts of complexes **1** and **2** on the relative viscosity of ct-DNA at 25 ± 0.1 °C; $[\text{DNA}] = 0.1 \text{ mmol L}^{-1}$.

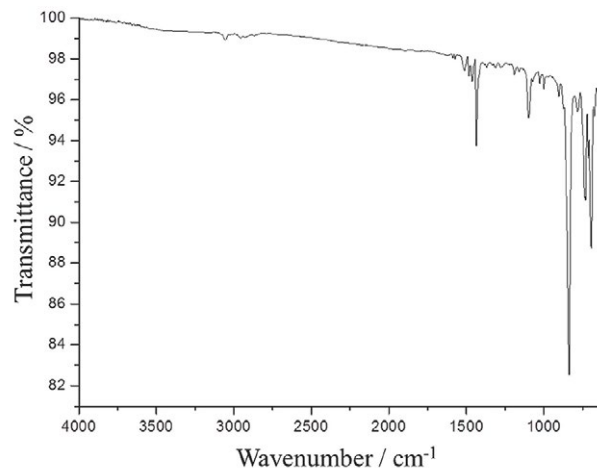


Figure S7. IR spectrum of complex **2**.

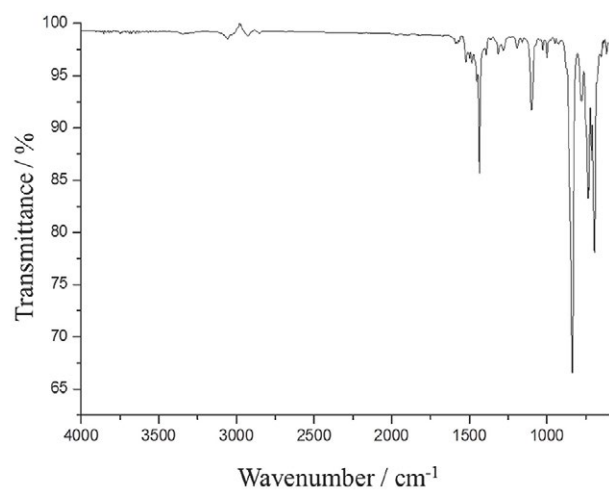


Figure S6. IR spectrum of complex **1**.

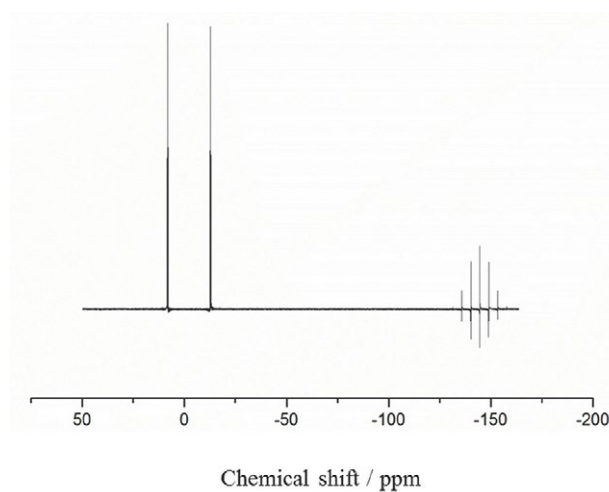


Figure S8. ^{31}P [^1H] NMR spectrum (162.0 MHz, $\text{CH}_2\text{Cl}_2/\text{D}_2\text{O}$) of complex **1**.

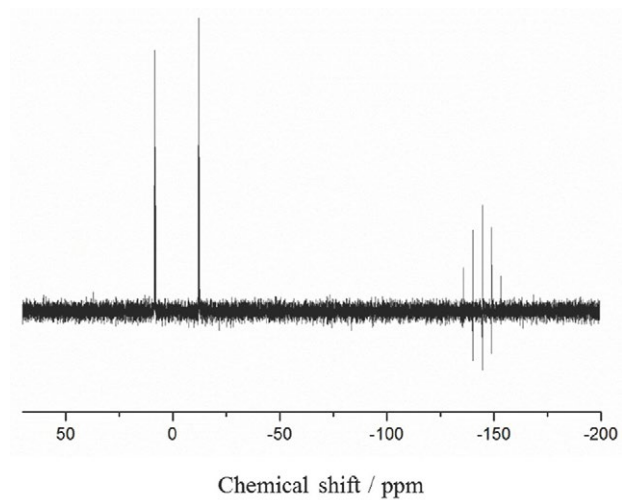


Figure S9. ^{31}P [^1H] NMR spectrum (162.0 MHz, $\text{CH}_2\text{Cl}_2/\text{D}_2\text{O}$) of complex **2**.

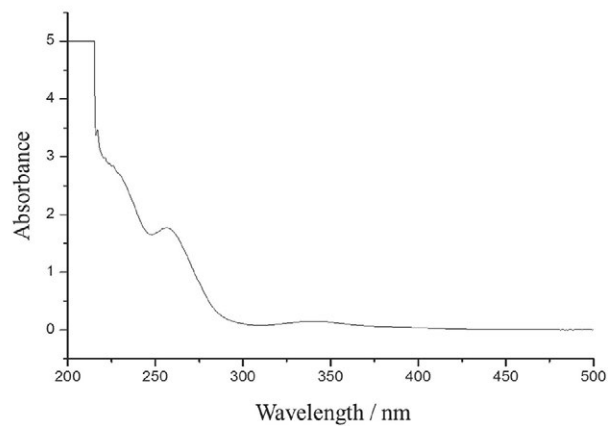


Figure S11. UV-Vis spectrum of complex **2**.

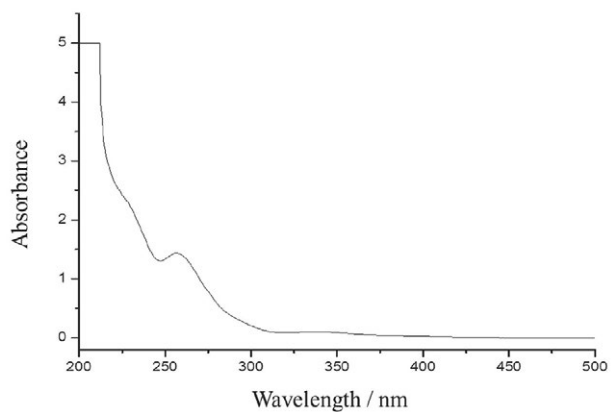


Figure S10. UV-Vis spectrum of complex **1**.