

Inorganic Chemistry

including bioinorganic chemistry

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Supplementary Material

Structural Studies of Λ - and Δ -[Ru(phen)₂dppz]²⁺ Bound to d(GTCGAC)₂:

Characterization of Enantioselective Intercalation

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Figure 1S: Contour plot of the base-H1' region of the NOESY spectrum of d(GTCGAC)₂ in the absence (A) and presence (B) of 0.75 equivalents Δ -[Ru(phen)₂dppz]²⁺ per duplex. Conditions are as described in the text. The H1' NOE walk is indicated for the free duplex. Due to the asymmetric binding of the metal complex under slow exchange conditions, the H1' NOE walk for the bound duplex is less apparent.

Figure 2S: Imino proton region of a partial titration of rac- Δ -[Ru(phen)₂dppz]²⁺ into d(GTCGAC)₂ in 90% H₂O/10%D₂O. A jump and return pulse sequence was used to acquire the spectra. The broadening and upfield shifts of the resonances with the addition of metal complex is consistent with intercalation.

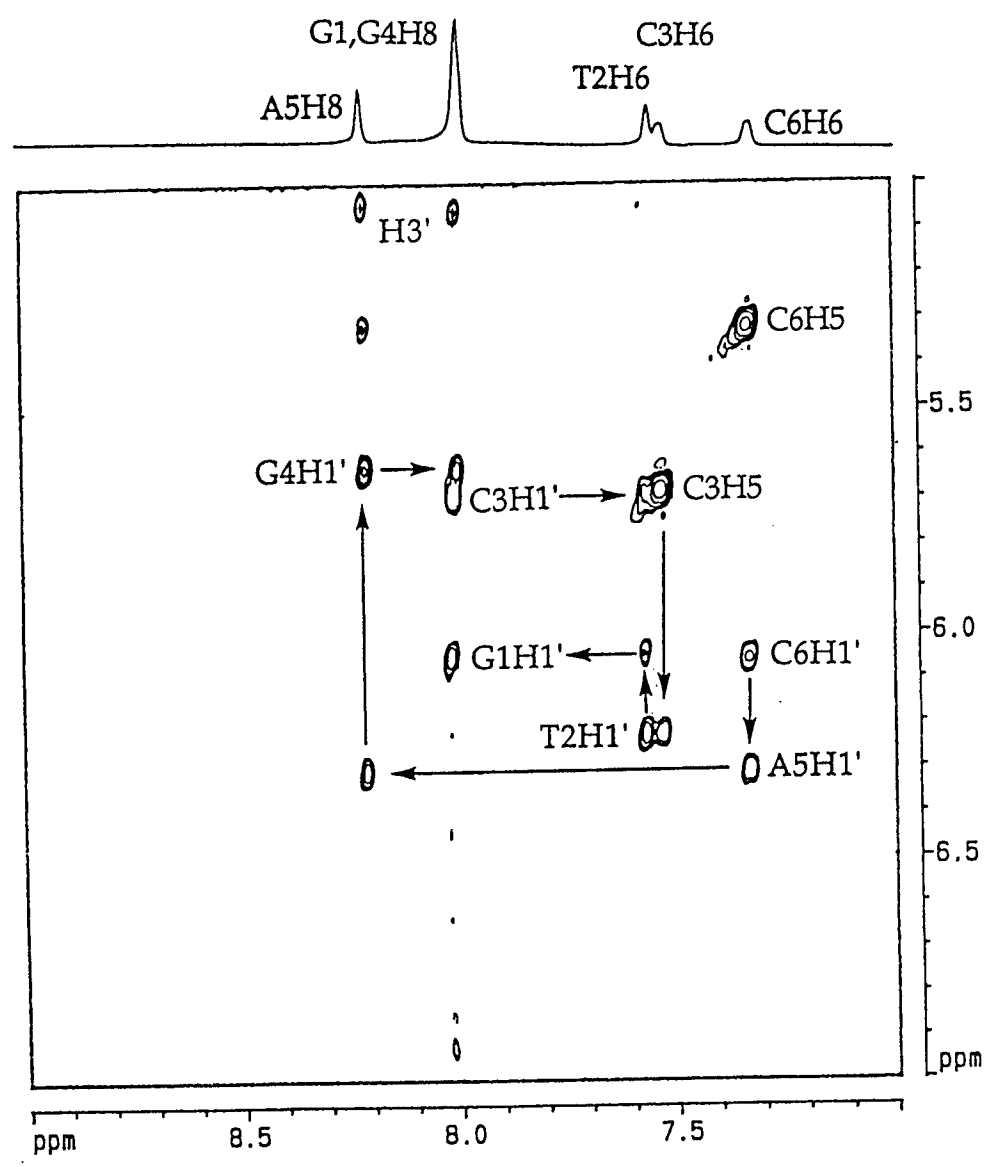


Figure 15A

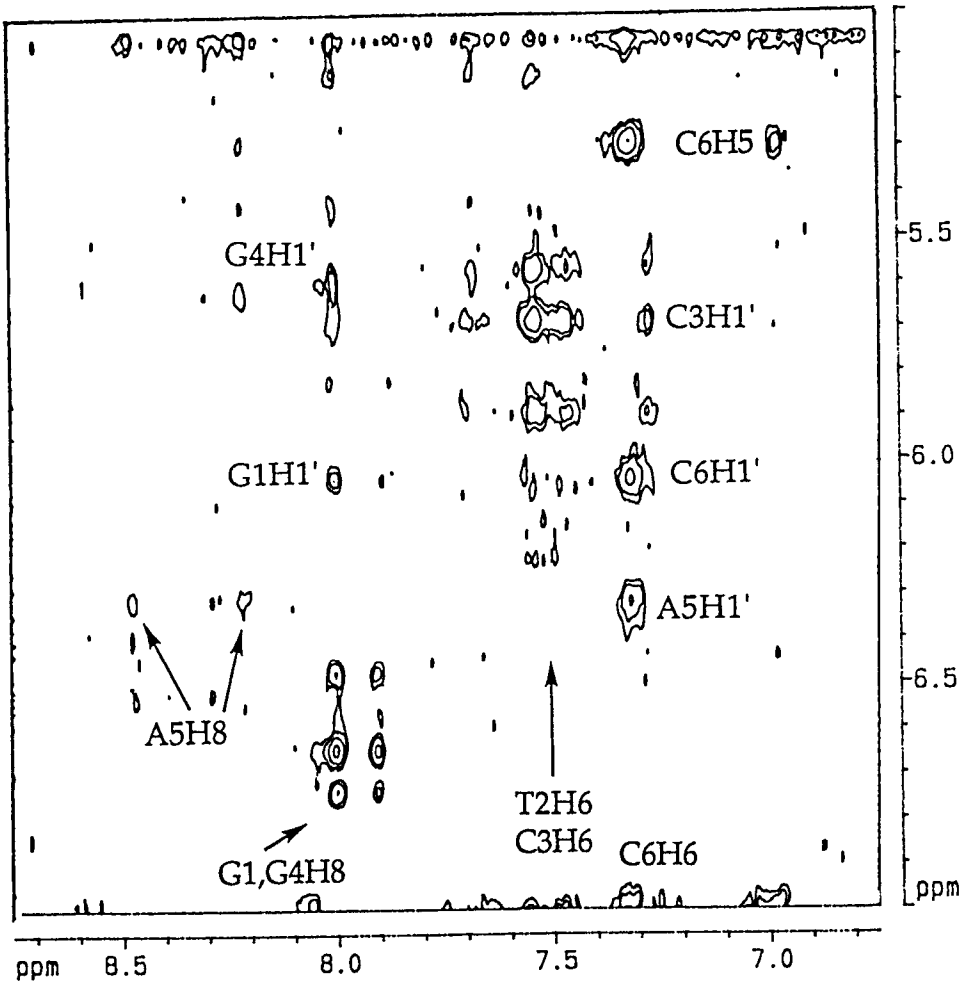


Figure 1SB

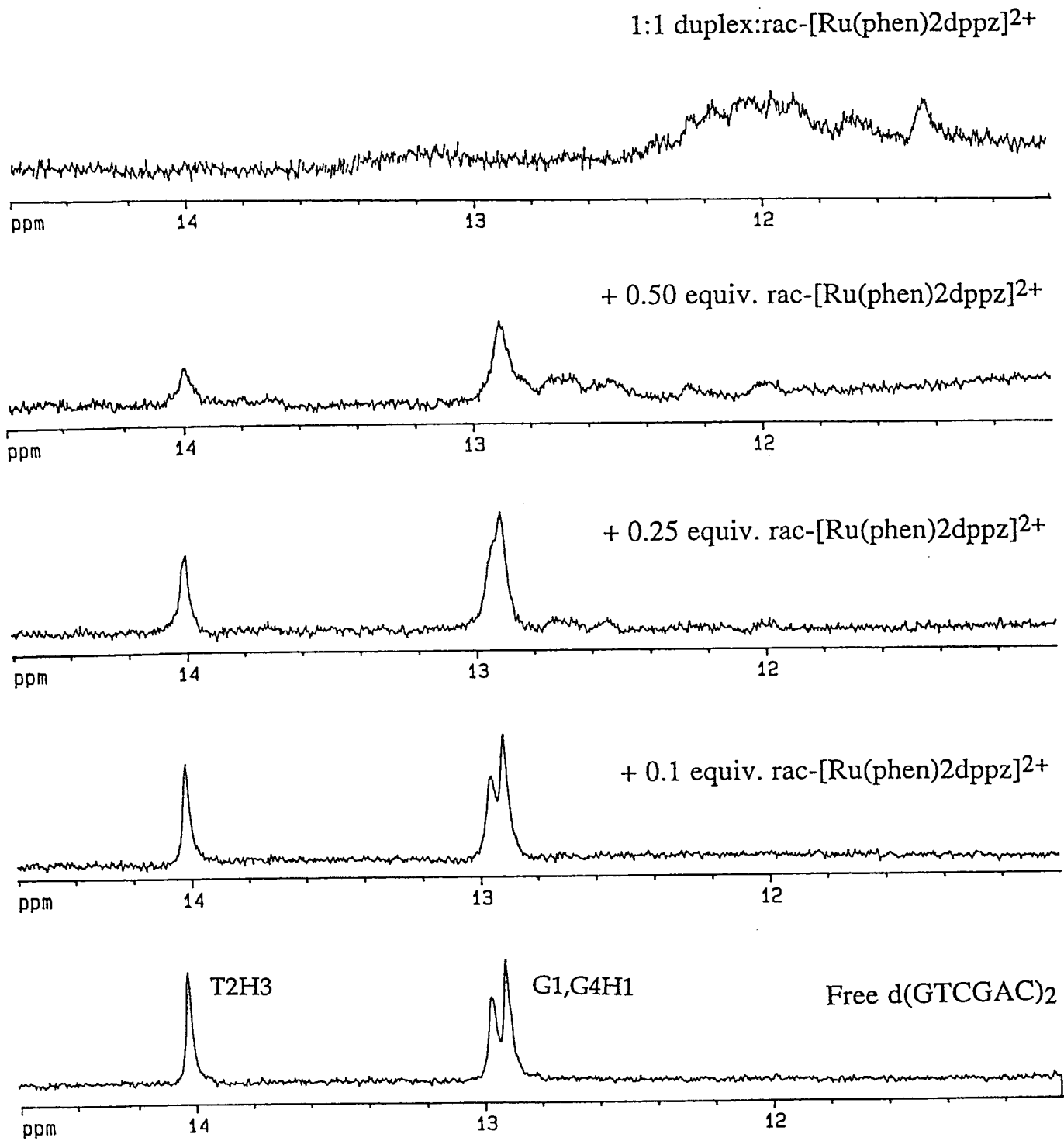


Figure 25