Supporting Information

Compatibility of Nucleobases Containing Pt(II) Complexes with Red Blood Cells for Possible Drug Delivery Applications

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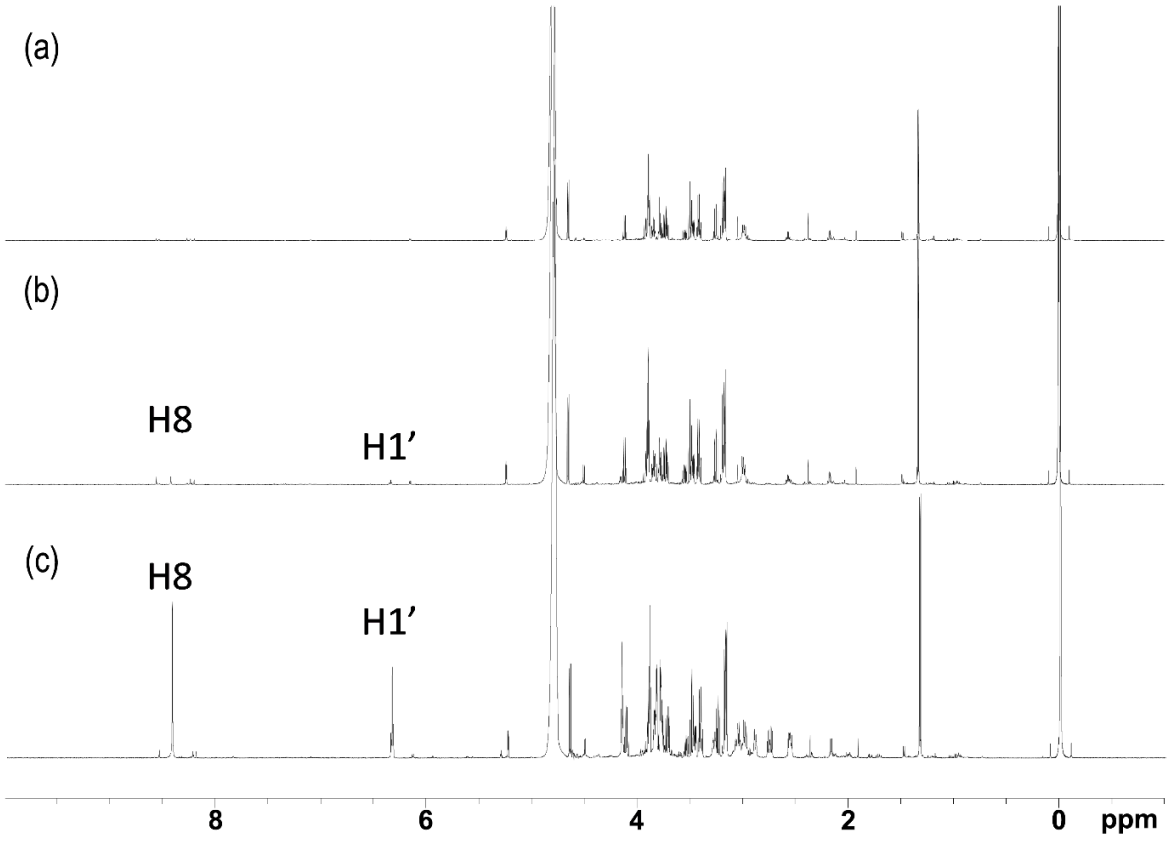

Figure S1. ^{1}H CPMG NMR spectra of: (a) unloaded Red Blood Cells (RBCs); (b) $[Pt(dien)(dGuo)]^{2+}$-loaded RBCs (**2**, dien = diethylenetriamine; dGuo = 2'-deoxy-guanosine); (c) Addition of complex **2** at known concentration in the corresponding $[Pt(dien)(dGuo)]^{2+}$-loaded RBCs sample.

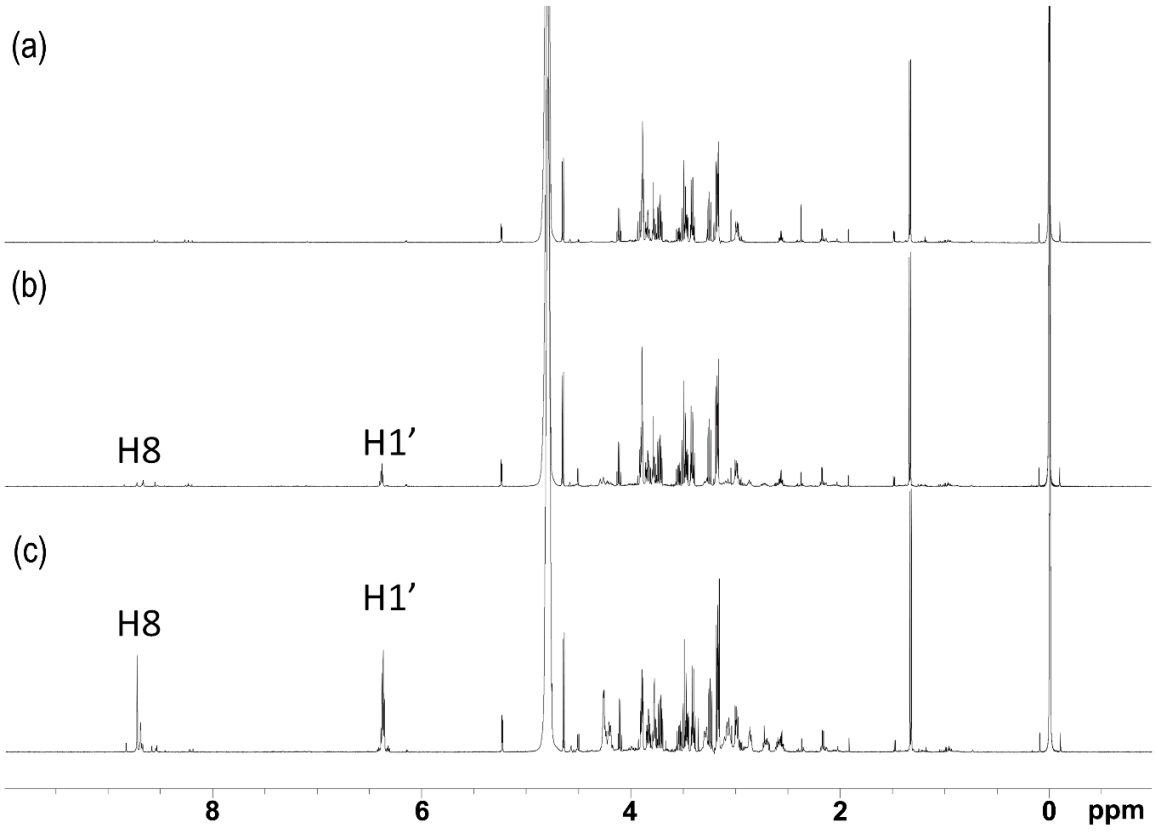

Figure S2. ^{1}H CPMG NMR spectra of: (a) unloaded Red Blood Cells (RBCs); (b) $[Pt(dien)(dGTP)]^{2+}$-loaded RBCs (**3**, dien = diethylenetriamine; dGTP = 5′-(2′-deoxy)-guanosine-triphosphate); (c) Addition of complex **3** at known concentration in the corresponding $[Pt(dien)(dGTP)]^{2+}$-loaded RBCs sample.

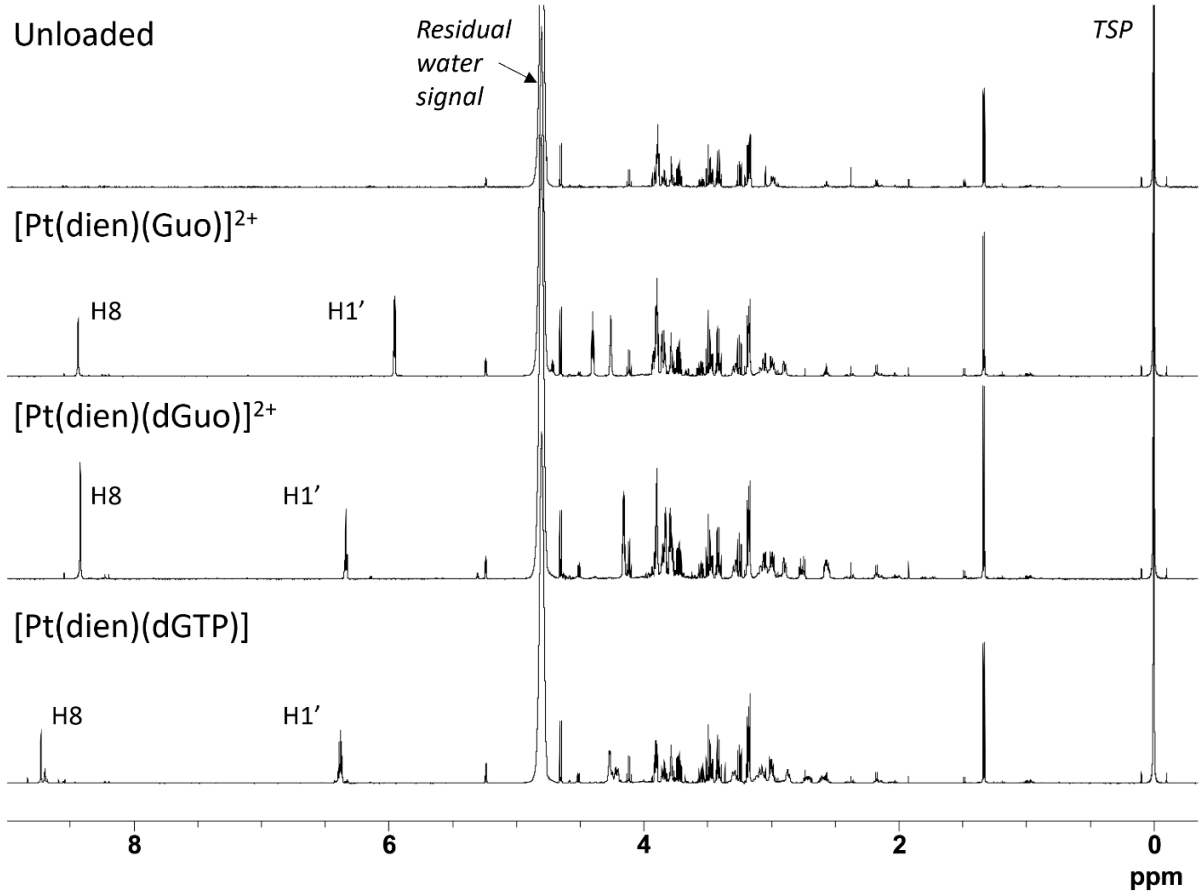

Figure S3. ^{1}H CPMG NMR spectra of unloaded and loaded Red Blood Cells samples after the addition of known concentrations of $[Pt(dien)(Guo)]^{2+}$ (**1**), $[Pt(dien)(dGuo)]^{2+}$ (**2**), and [Pt(dien)(dGTP)] (**3**) (dien = diethylenetriamine; Guo = guanosine; dGuo = 2'-deoxy-guanosine; dGTP = 5′-(2′-deoxy)-guanosine-triphosphate).

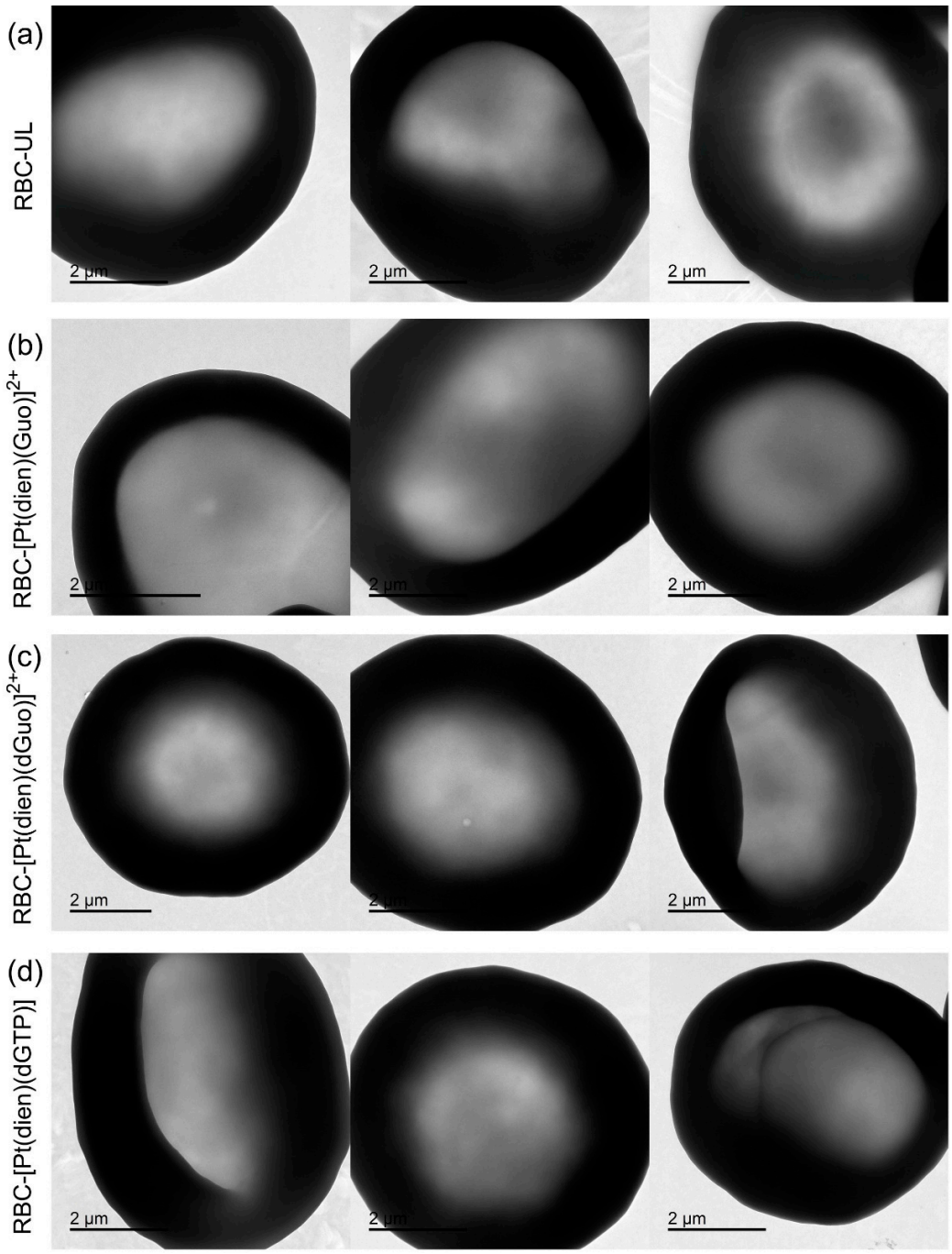

Figure S4. Transmission electron microscopy (TEM) analysis of: (a) Unloaded, (b) $[Pt^{II}(dien)(N7\text{-}Guo)]^{2+}$-(c) $[Pt^{II}(dien)(N7\text{-}dGuo)]^{2+}$-, and (d) $[Pt^{II}(dien)(N7\text{-}dGTP)]$-loaded Red Blood Cells (dien = diethylenetriamine; Guo = guanosine; dGuo = 2'-deoxy-guanosine; dGTP = 5′-(2′-deoxy)-guanosine-triphosphate; in this figure for complexes **1**-**3** formulae the indication of platinum oxidation state and bonded *N7* have been omitted for simplicity).

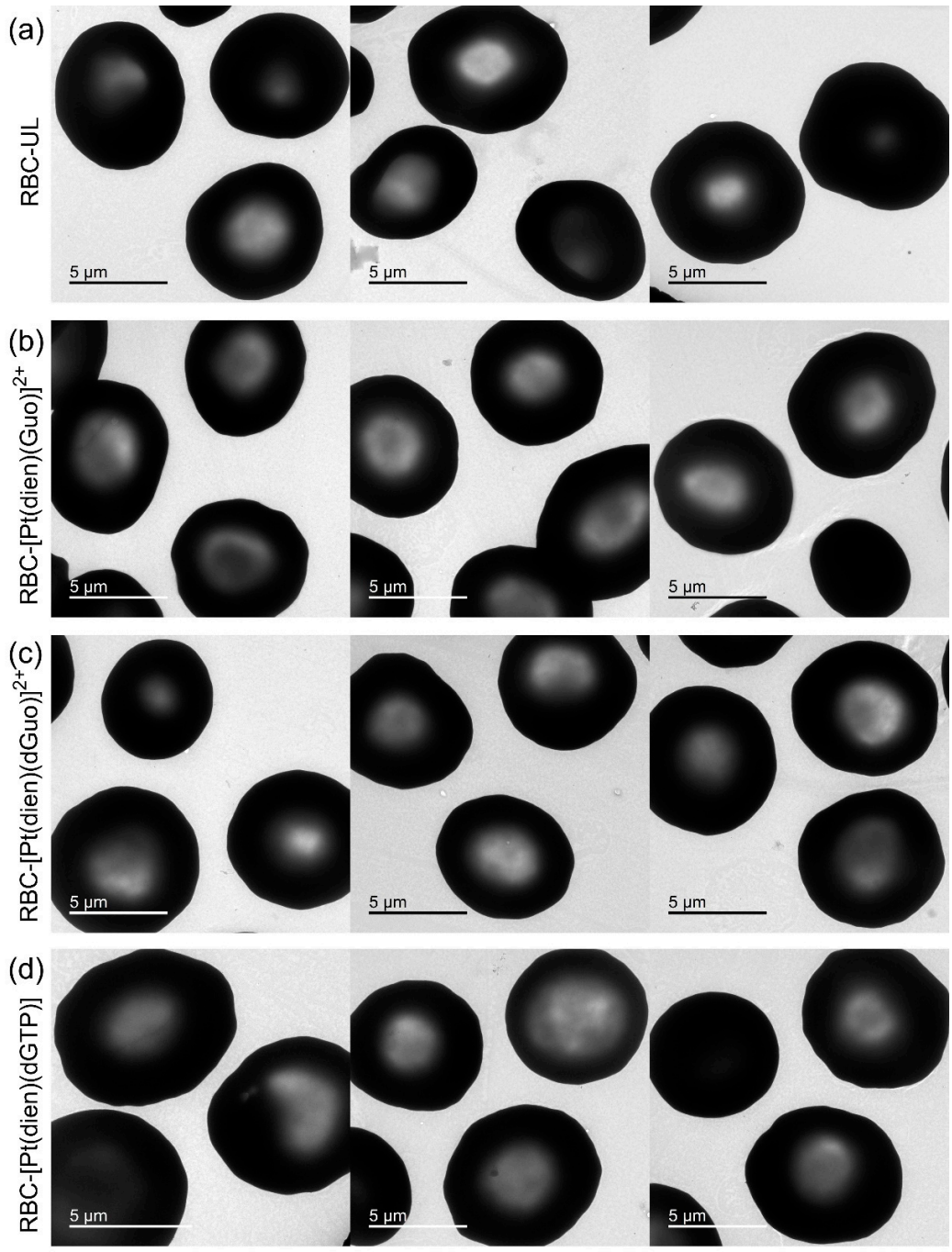

Figure S5. Transmission electron microscopy (TEM) analysis of: (a) Unloaded, (b) $[Pt^{II}(dien)(N7\text{-}Guo)]^{2+}$-(c) $[Pt^{II}(dien)(N7\text{-}dGuo)]^{2+}$-, and (d) $[Pt^{II}(dien)(N7\text{-}dGTP)]$-loaded Red Blood Cells (dien = diethylenetriamine; Guo = guanosine; dGuo = 2'-deoxy-guanosine; dGTP = 5′-(2′-deoxy)-guanosine-triphosphate; in this figure for complexes **1**-**3** formulae the indication of platinum oxidation state and bonded *N7* have been omitted for simplicity).