

Supplementary Materials

Figure S1. Aromatic and anomeric proton signals for the mixture of 2,6-bis(3,5-dimethylpyrazol-1-yl)-9- β -D-ribofuranosylpurine (**1**, 5.0 mmol·L⁻¹) and K₂PdCl₄ (2.0 mmol·L⁻¹) in in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed **1** and triangles to a 1:2 complex (Pd:1).

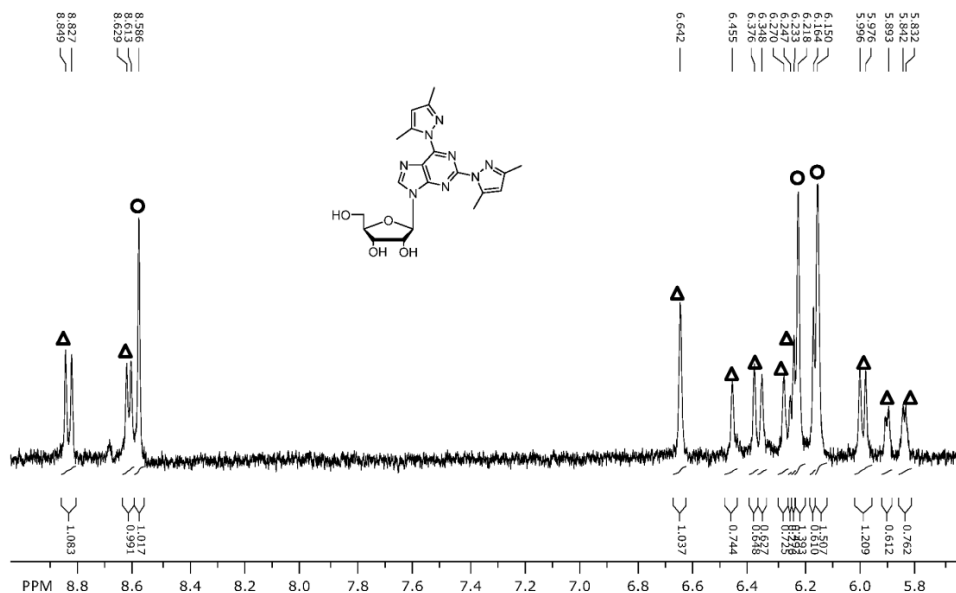


Figure S2. Aromatic and anomeric proton signals for the mixture of 2,6-bis(3,5-dimethylpyrazol-1-yl)-9- β -D-ribofuranosylpurine (**1**, 5.0 mmol·L⁻¹) and K₂PdCl₄ (4.0 mmol·L⁻¹) in in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to a 1:1 and triangles to a 1:2 complex (Pd:1).

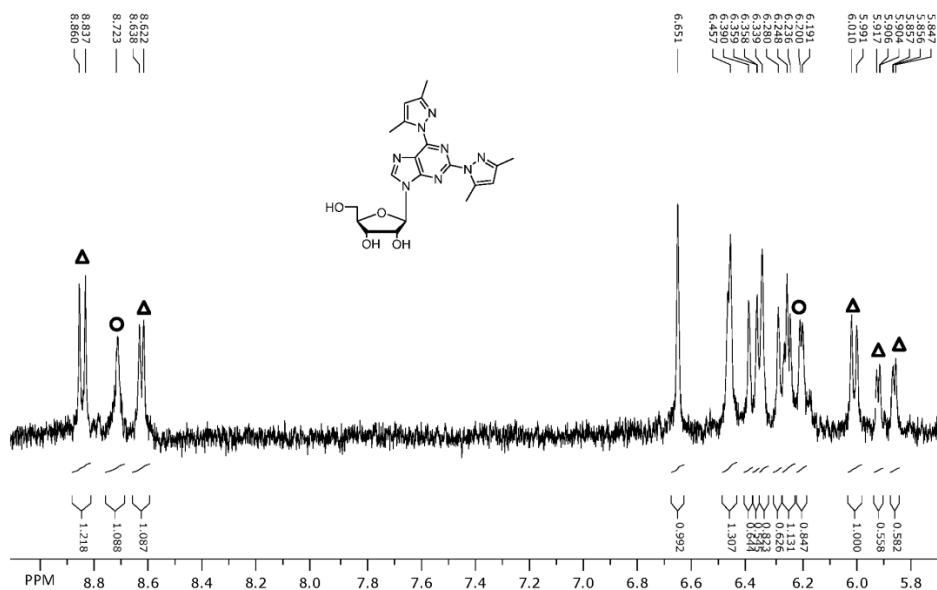


Figure S3. Aromatic and anomeric proton signals for the mixture of 6-(3,5-dimethylpyrazol-1-yl)-9- β -D-ribofuranosylpurine (**3**, 5.0 mmol·L⁻¹) and K₂PdCl₄ (5.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed **3** and open and filled squares to two different 1:1 complexes (Pd:**3**).

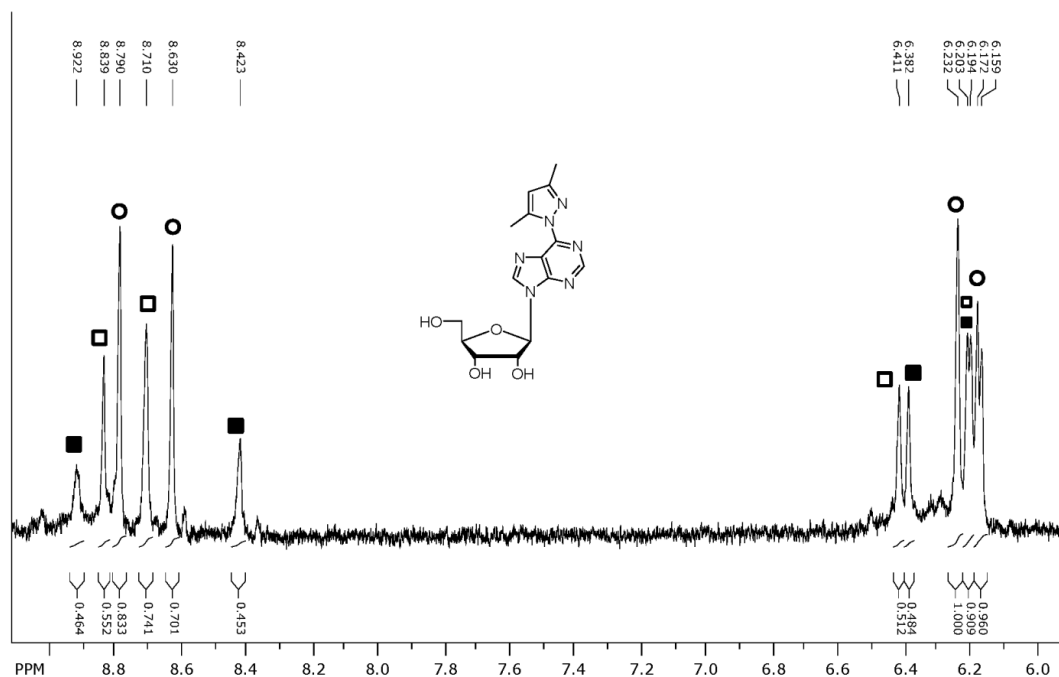


Figure S4. Aromatic and anomeric proton signals for the mixture of 2,6-bis(1-methylhydrazinyl)-9- β -D-ribofuranosylpurine (**2**, 5.0 mmol·L⁻¹) and K₂PdCl₄ (5.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed **2** and open squares to a 1:1 complex (Pd:**2**).

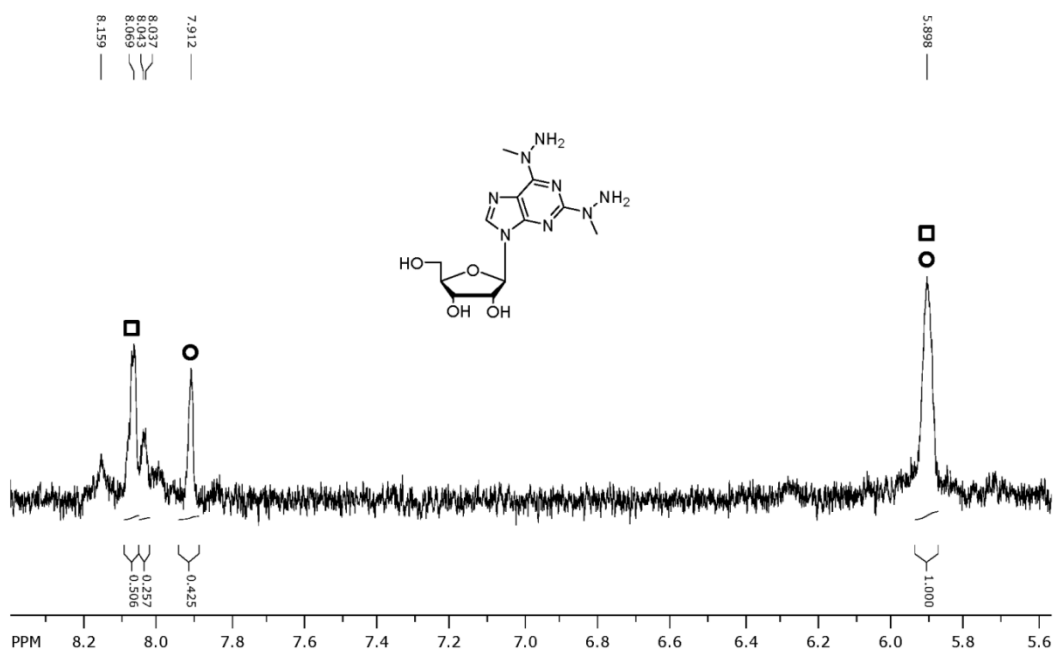


Figure S5. Aromatic and anomeric proton signals for the mixture of 2,4-bis(3,5-dimethylpyrazol-1-yl)-5-(β -D-ribofuranosyl)-pyrimidine (**4**, 5.0 mmol·L⁻¹) and K₂PdCl₄ (5.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed **4** and the rest of the signals to numerous Pd²⁺ containing species.

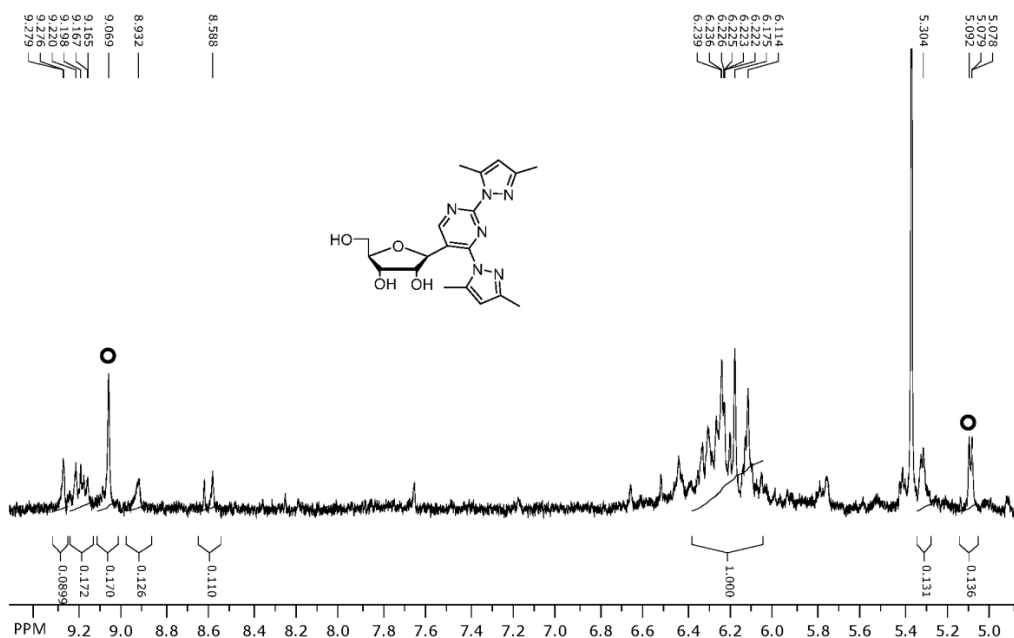


Figure S6. Aromatic and anomeric proton signals for the mixture of GMP (5 mmol·L⁻¹), 2,6-bis(3,5-dimethylpyrazol-1-yl)-9- β -D-ribofuranosylpurine (**1**, 3.0 mmol·L⁻¹) and K₂PdCl₄ (3.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed GMP and squares to 1:1:1 complexes (**1**:Pd:GMP).

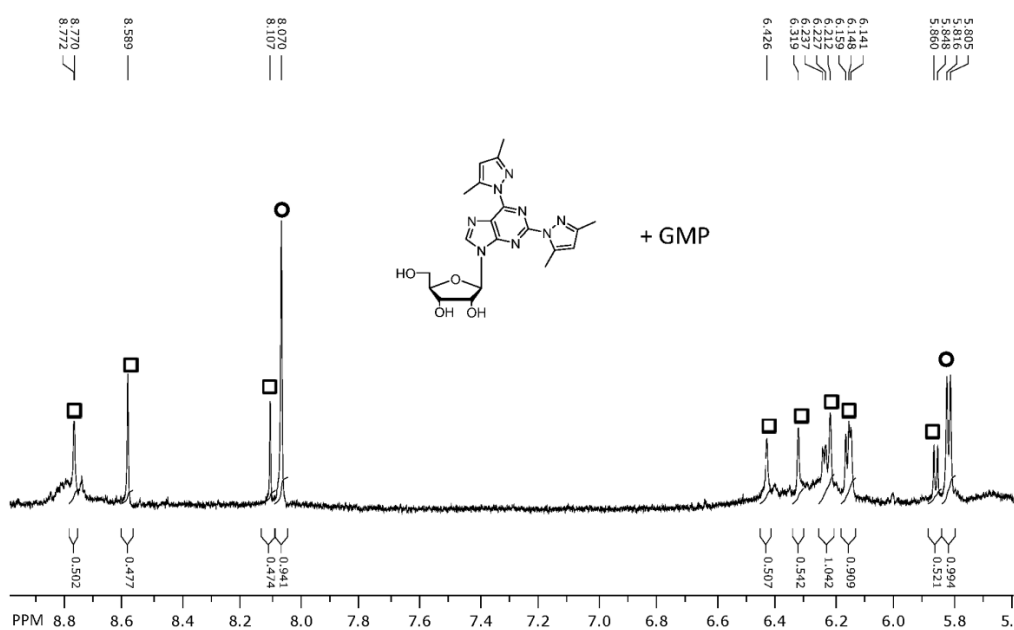


Figure S7. Aromatic and anomeric proton signals for the mixture of IMP (5 mmol·L⁻¹), 2,6-bis(3,5-dimethylpyrazol-1-yl)-9-β-D-ribofuranosylpurine (**1**, 4.0 mmol·L⁻¹) and K₂PdCl₄ (4.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed IMP and squares to 1:1:1 complexes (**1**:Pd:IMP).

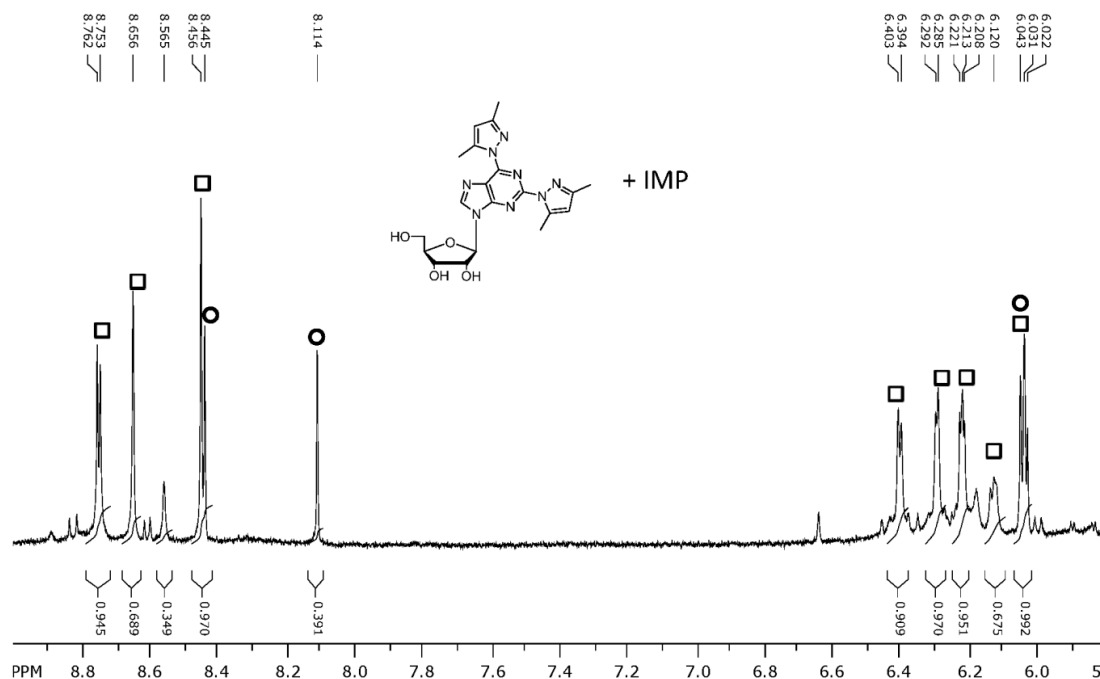


Figure S8. Aromatic and anomeric proton signals for the mixture of CMP ($5 \text{ mmol}\cdot\text{L}^{-1}$), 2,6-bis(3,5-dimethylpyrazol-1-yl)-9- β -D-ribofuranosylpurine (**1**, $4.0 \text{ mmol}\cdot\text{L}^{-1}$) and K_2PdCl_4 ($4.0 \text{ mmol}\cdot\text{L}^{-1}$) in D_2O (phosphate buffer $0.12 \text{ mol}\cdot\text{L}^{-1}$, pD 7.6, 25°C). Notation: Open circles refer to uncomplexed CMP, filled squares to the binary complex $(\text{CMP})\text{Pd}^{2+}$ complex and open squares to the mixed ligand complex $(\mathbf{1})\text{Pd}(\text{CMP})$.

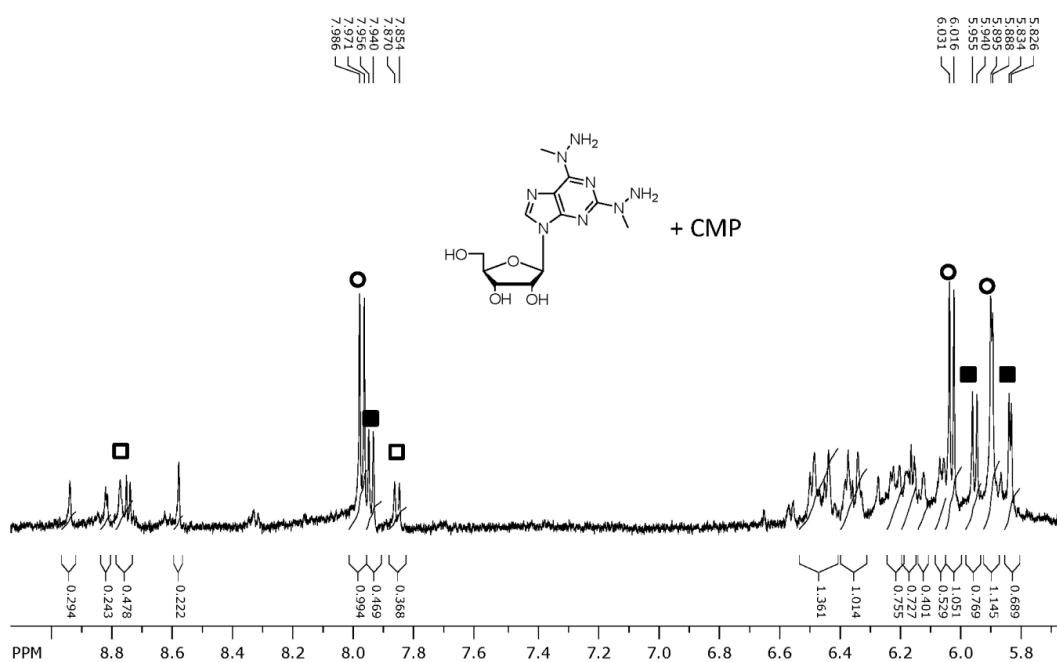


Figure S9. Aromatic and anomeric proton signals for the mixture of UMP (5 mmol·L⁻¹), 2,6-bis(1-methylhydrazinyl)-9-β-D-ribofuranosylpurine (**2**, 4.0 mmol·L⁻¹) and K₂PdCl₄ (4.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed UMP and open squares to the mixed ligand complex (**2**)Pd(UMP).

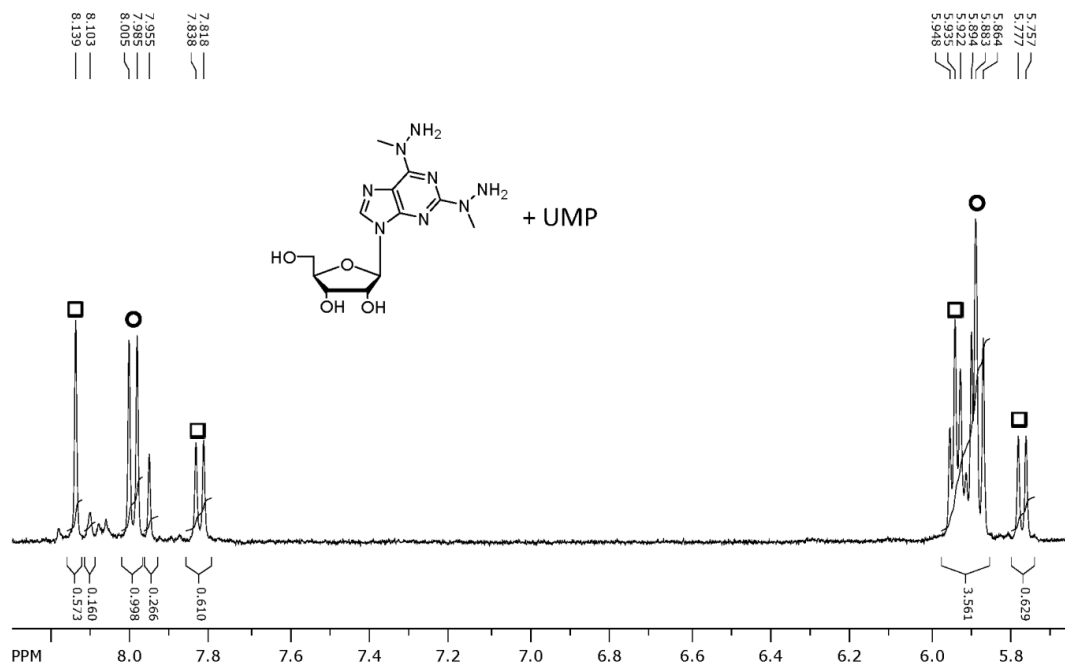


Figure S10. Aromatic and anomeric proton signals for the mixture of CMP (5 mmol·L⁻¹), 2,6-bis(1-methylhydrazinyl)-9-β-D-ribofuranosylpurine (**2**, 4.0 mmol·L⁻¹) and K₂PdCl₄ (4.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed CMP and open squares to the mixed ligand complex (**2**)Pd(CMP).

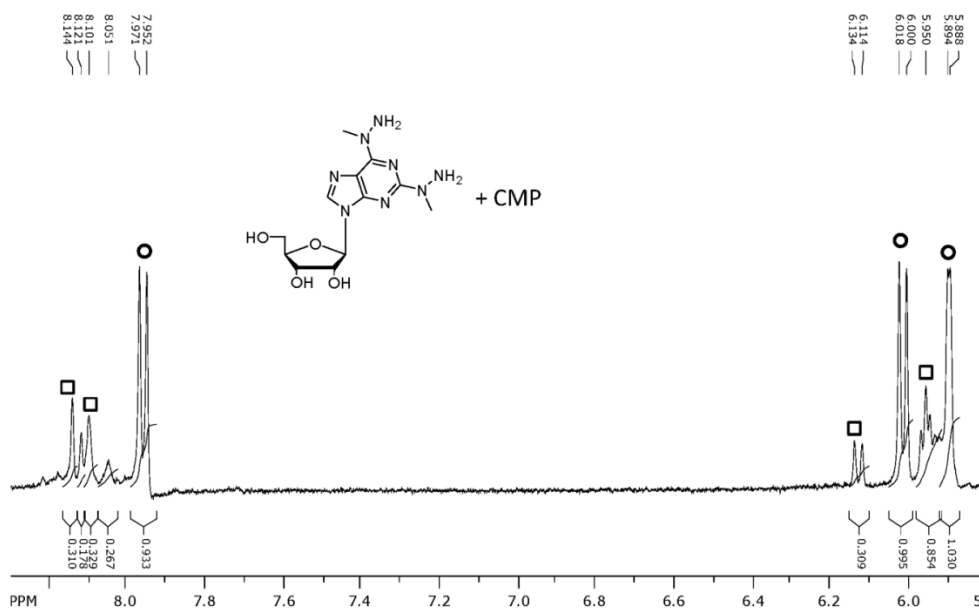


Figure S11. Aromatic and anomeric proton signals for the mixture of GMP (5 mmol·L⁻¹), 2,6-bis(1-methylhydrazinyl)-9-β-D-ribofuranosylpurine (**2**, 4.0 mmol·L⁻¹) and K₂PdCl₄ (4.0 mmol·L⁻¹) in D₂O (phosphate buffer 0.12 mol·L⁻¹, pD 7.6, 25 °C). Notation: Open circles refer to uncomplexed GMP and open squares to the mixed ligand complex (**2**)Pd(GMP).

