# Supplemental Information

## Coordination of Platinum Therapeutic Agents to Met-Rich Motifs of Human Copper Transport Protein1

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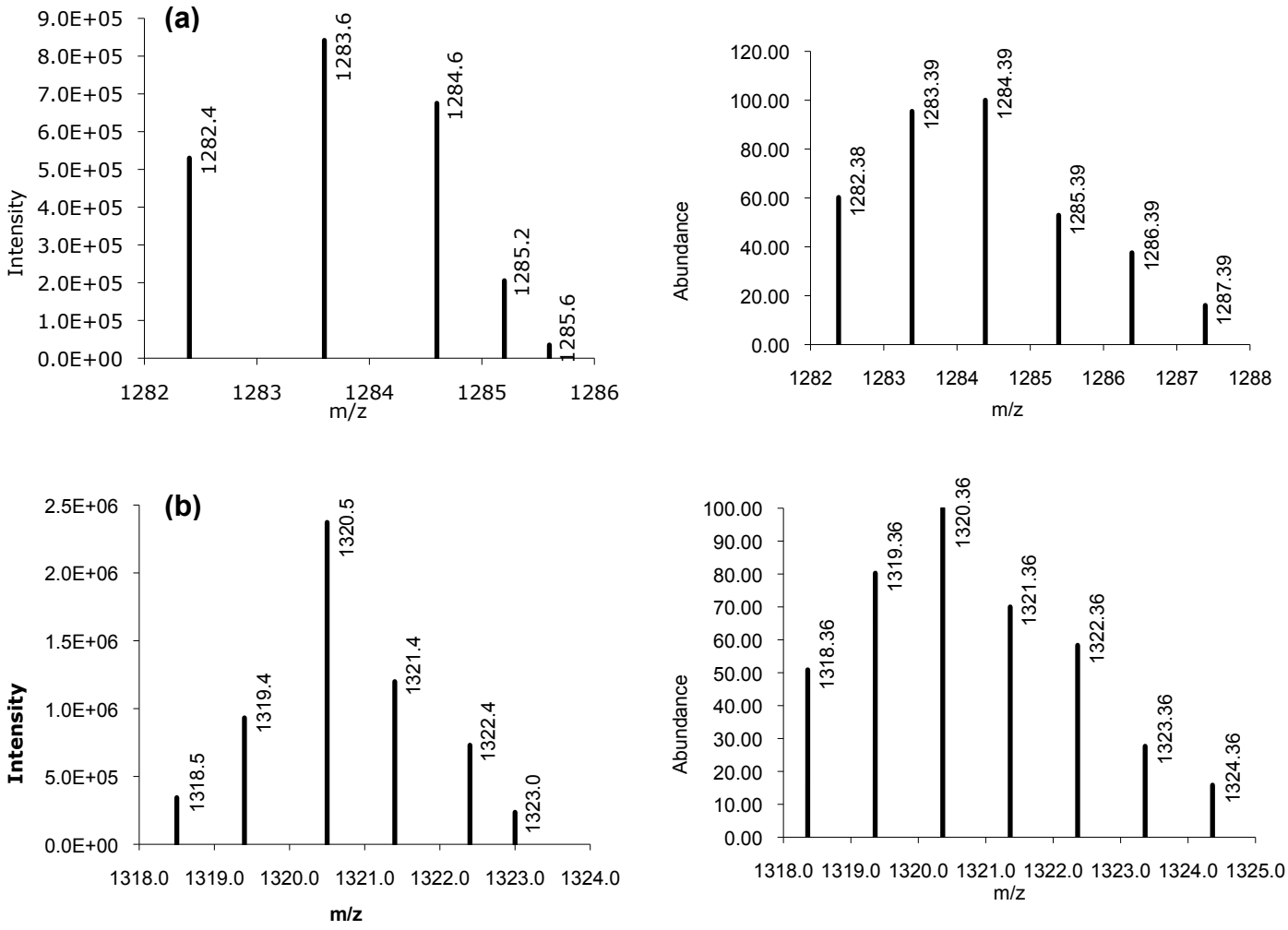


**Figure S1.** Comparison of the experimental (left) and calculated (right) isotopic patterns for masses of **(a)** $[Pt(P1-H)]^+$, which elutes at 10 min in Figure 1; and **(b)** $[PtCl(P1)]^+$, which elutes at 11.7 min in Figure 1.

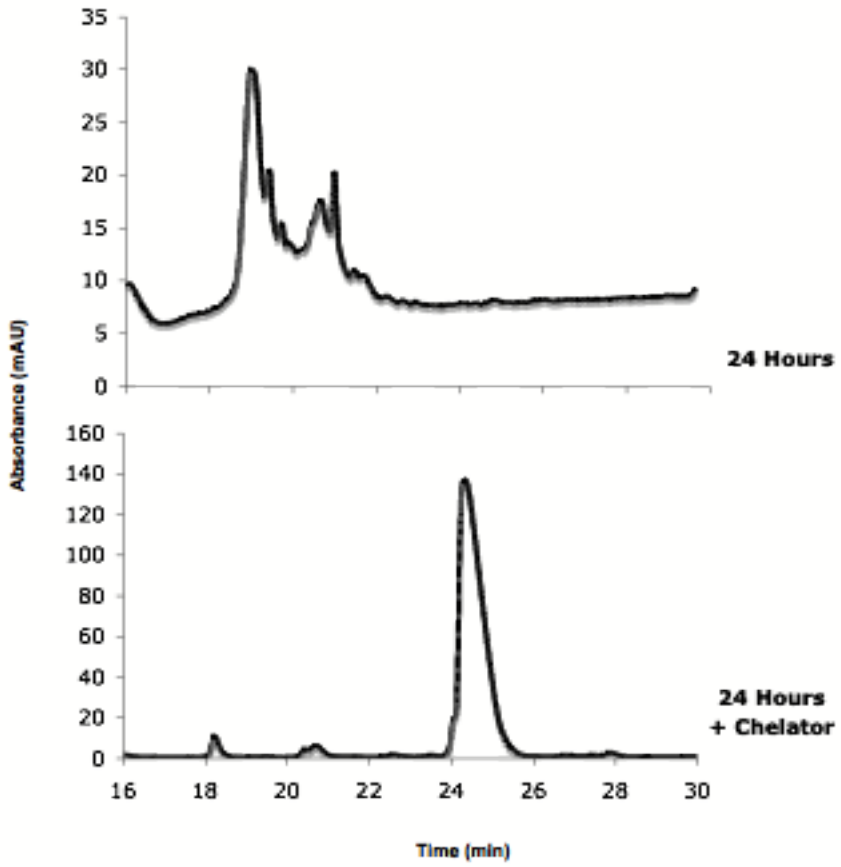


**Figure S2.** LC data of 24-h incubation of P1 with cisplatin and incubation of the same reaction with DTO. After 24 h the apo-peptide peak has completely disappeared, however after introduction of DTO to the reaction the apo peptide peak is regenerated, demonstrating the reversibility of the interaction of P1 with cisplatin.

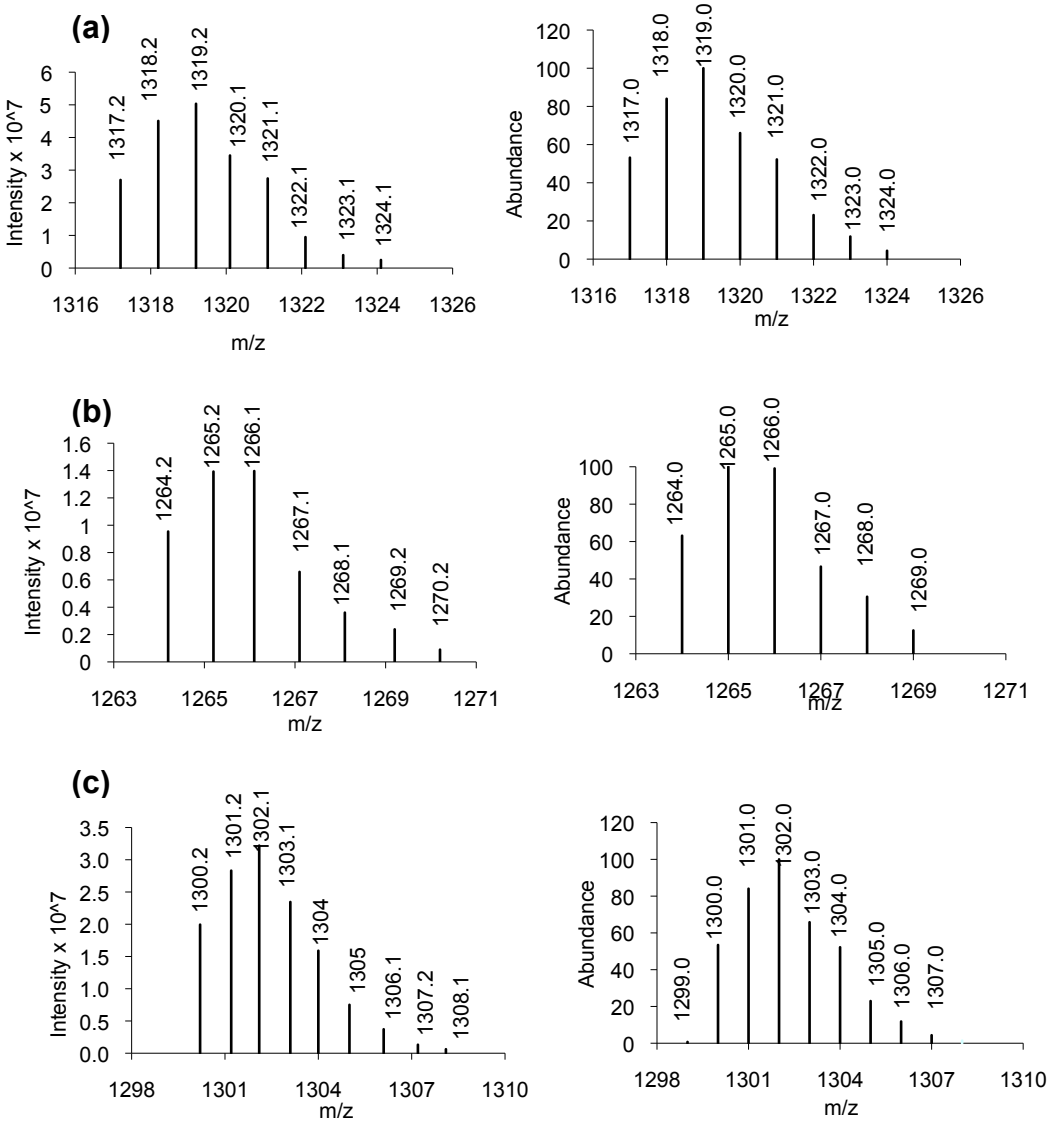


**Figure S3.** Experimental (left) and calculated (right) mass spectra of peaks eluting at **(a)** 14.6 min, **(b)** 17.3 min, and **(c)** 18.1 min from Figure 2 for reaction between peptide P1M9 and cisplatin. These masses correspond to species with formulations $[Pt(P1M9)(NH_3)_2Cl]$, $[Pt(P1M9\text{-}H)(NH_3)]^+$, and $[Pt(P1M9)Cl(OH_2)]^+$, respectively.

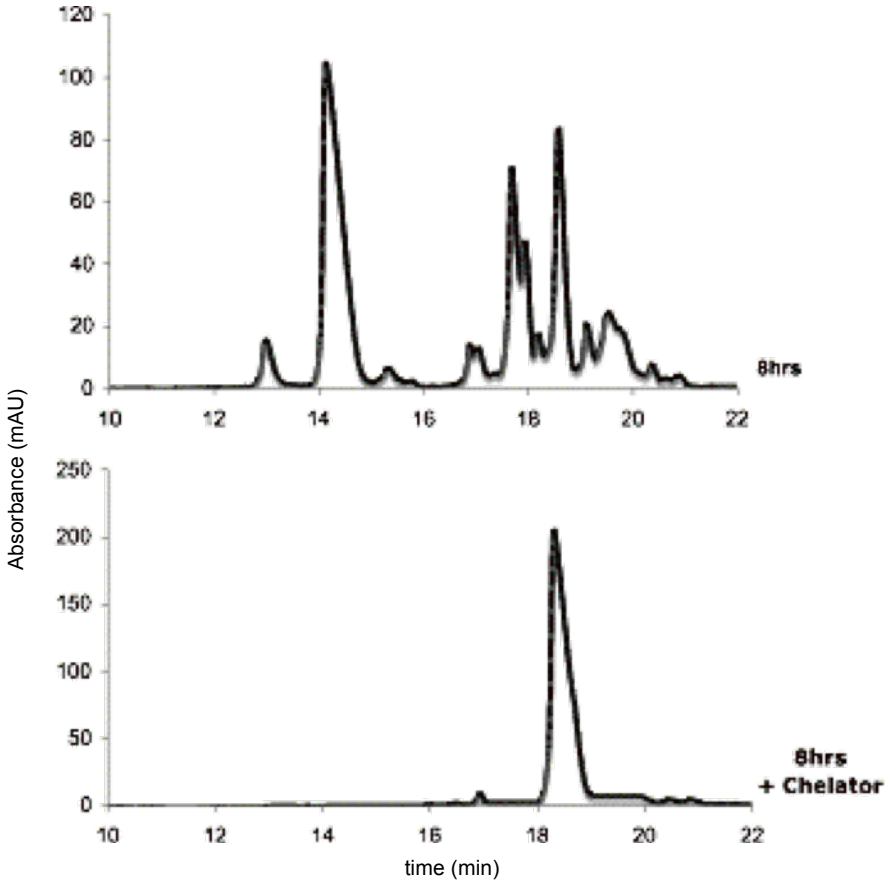


**Figure S4.** Incubation of P1M9 with cisplatin after 8 h (re-shown here from Fig 2) compared to incubation post-8 h with DTP chelator.

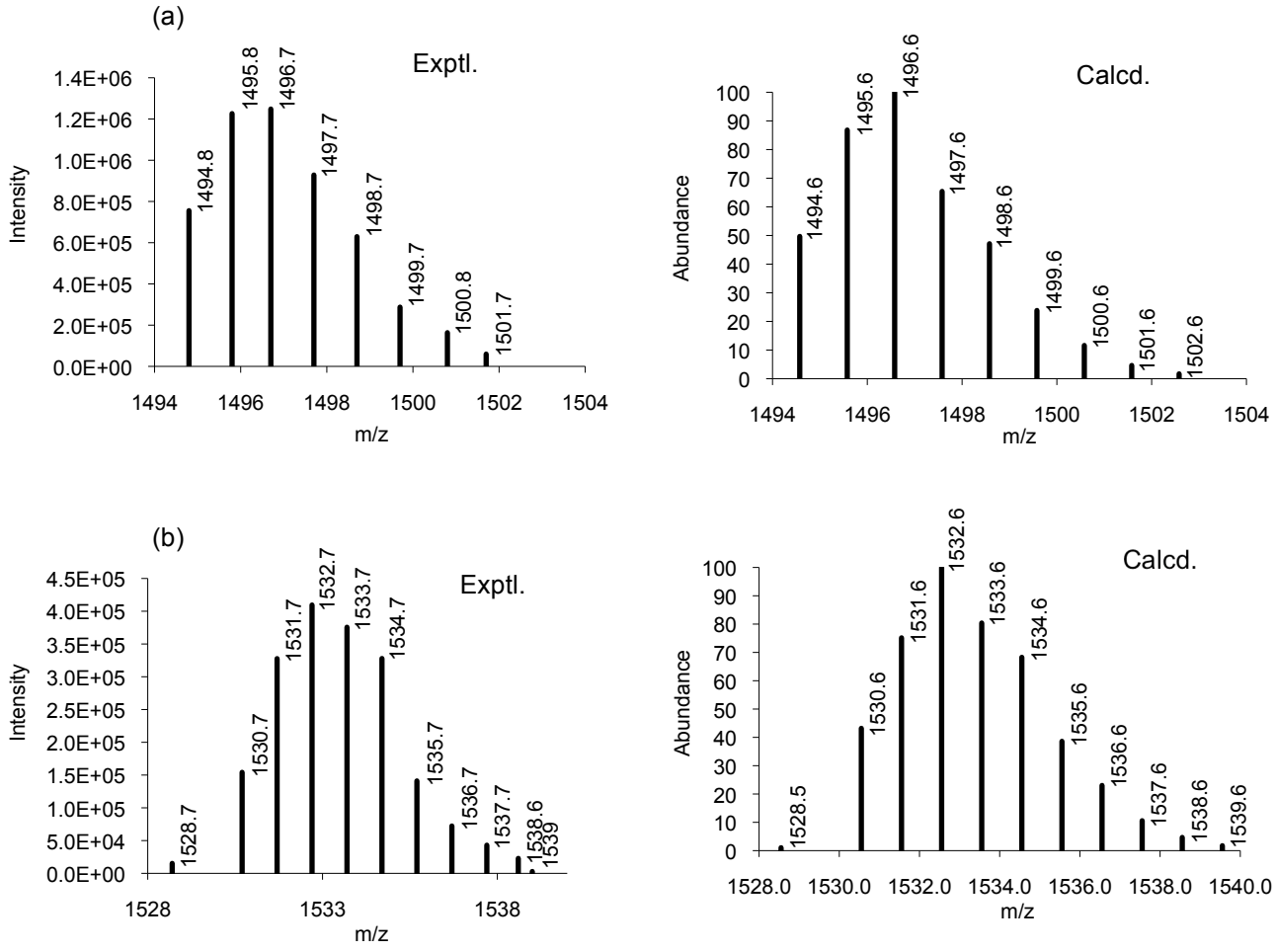


**Figure S5.** Experimental (left) and calculated (right) mass spectral isotopic patterns for products seen in the reaction of oxaliplatin with P2. **(a)** $[Pt(P2\text{-}H)(CHDA)]^+$, **(b)** $[Pt(P2)(CHDA)Cl]^+$.