

Platination of superoxide dismutase with cisplatin: Tracking the ammonia ligands using Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS)[†]

Stefan K. Weidt, C. Logan Mackay, Pat R. R. Langridge-Smith and Peter J. Sadler*

Electronic Supplementary Information (ESI)

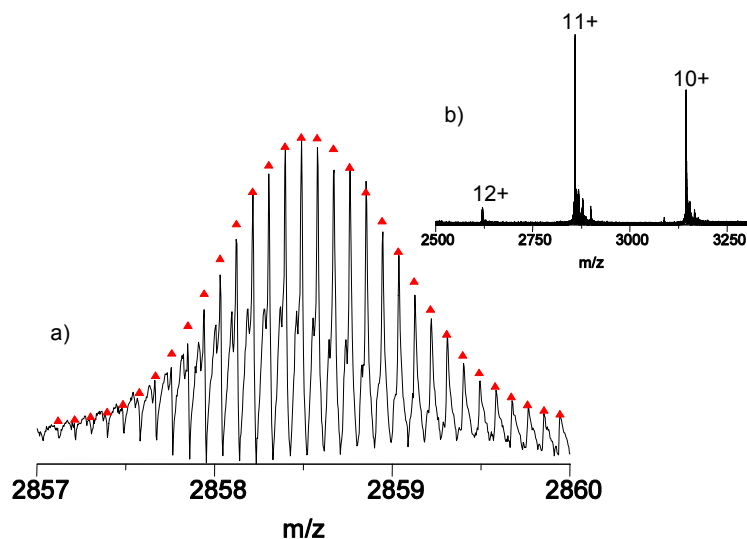


Figure S1: a) The mass spectrum of the 11+ ion of (beSOD)₂ using native ESI conditions which have preserved the homodimer containing 2 Cu and 2 Zn ions: 20 mM ammonium acetate buffer pH 7, and detected using a 9.4 T Bruker Apex III FT-ICR MS. Experimental spectrum —; and the theoretical isotope pattern for C₁₃₄₄H₂₁₅₂N₃₉₆O₄₄₂S₈Cu₂Zn₂ ▲. b) Extended mass spectrum shows the 12+, 11+ and 10+ ions of (beSOD)₂.

5

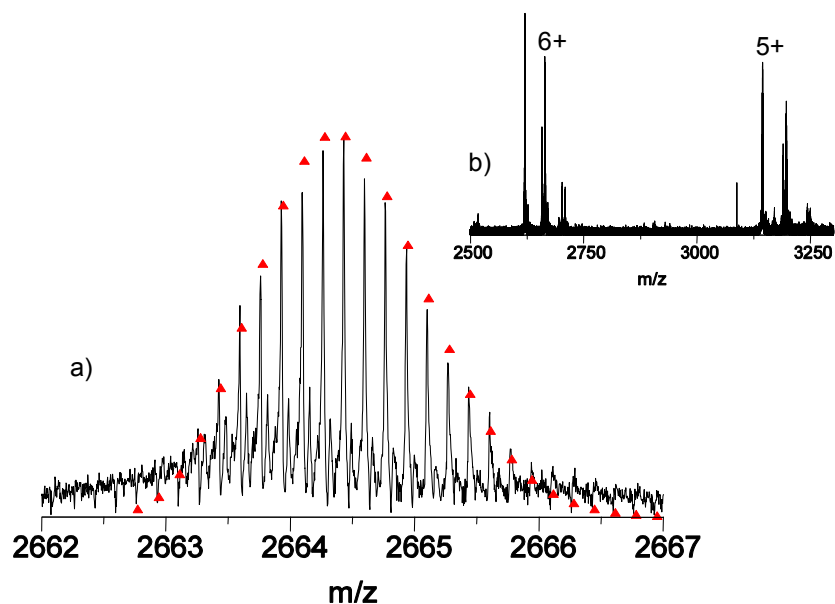


Figure S2: a) The mass spectrum of the 6+ ion of beSOD using harsh desolvation conditions which break the homodimer whilst preserving copper, zinc and platinum binding. Experimental —; theoretical isotope pattern for C₆₇₂H₁₀₈₂N₂₀₀O₂₂₁S₄Cu₁Zn₁Pt₁Cl₁ ▲. b) Extended mass spectrum showing the 6+ and 5+ monomer ions of beSOD.