Supplementary figure 2. Identification of AMPPCP and divalent cations associated with it. (**A**) A simulated annealed omit map (cyan net) contoured at 4.5 σ of AMPPCP-Mg²⁺ and its coordinating water molecules. The orange net represents an anomalous Fourier difference map for I of 2'-I AMPPNP contoured at 6 σ . (**B**) An anomalous Fourier difference map for Mn of AMPPCP-Mn²⁺ contoured at 6 σ (red net), and an $|F_{obs}| - |F_{obs}|$ (native - Mg²⁺-removed) map contoured at 6 σ representing Mg²⁺ (green net). Mg²⁺ was removed by soaking the crystals in the crystallization buffer without Mg²⁺. AMPPCP is shown in ball-and-stick.