

ELECTRONIC SUPPLEMENTARY INFORMATION

Synthesis, Characterization, and Reactivity Studies of a Hydrosoluble Bis(alkoxo)(carboxylato)-bridged DiMn^{III} Complex Modeling the Active Site in Catalase

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Figure S1. Negative mode ESI-mass spectra of **1** in (a) methanol, (b) H_2O and (c) $\text{Et}_3\text{N}/\text{Et}_3\text{NH}^+$ buffer of pH 11.

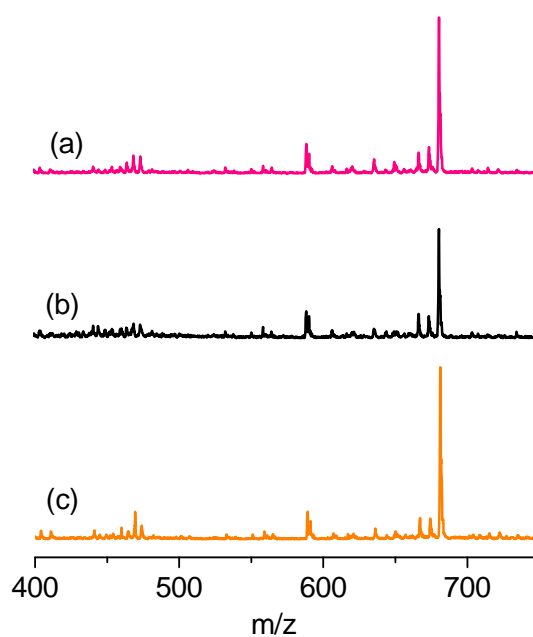


Figure S2. Electronic spectra of **1** in water registered at different times. $[1] = 6.5 \times 10^{-2}$ mM.

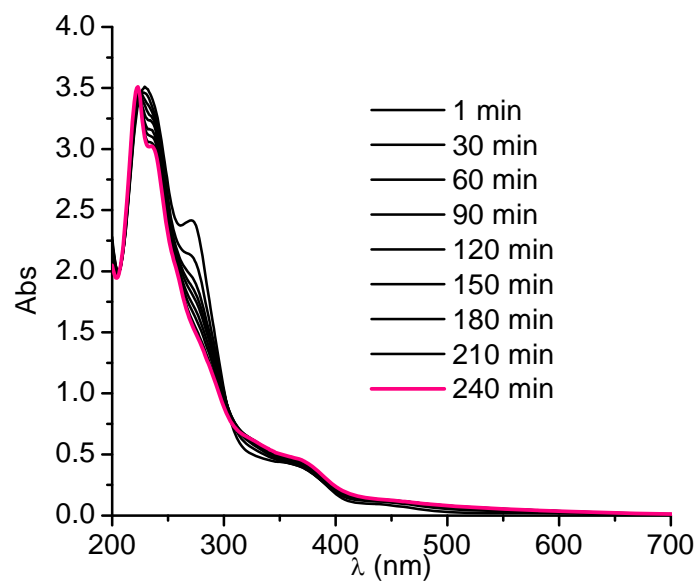


Figure S3. ^1H NMR spectra of **1** in D_4 -methanol (600 μL) and after addition of increasing amounts of $\text{D}_3\text{CCO}_2\text{Na}$. $[1] = 14$ mM.

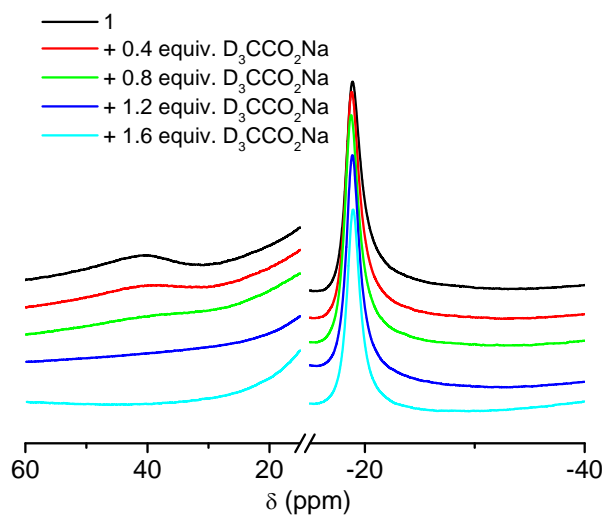


Figure S4. ^1H NMR spectra of **1** in D_4 -methanol (600 μL) and after addition of increasing amounts of D_2O . $[\mathbf{1}] = 20 \text{ mM}$.

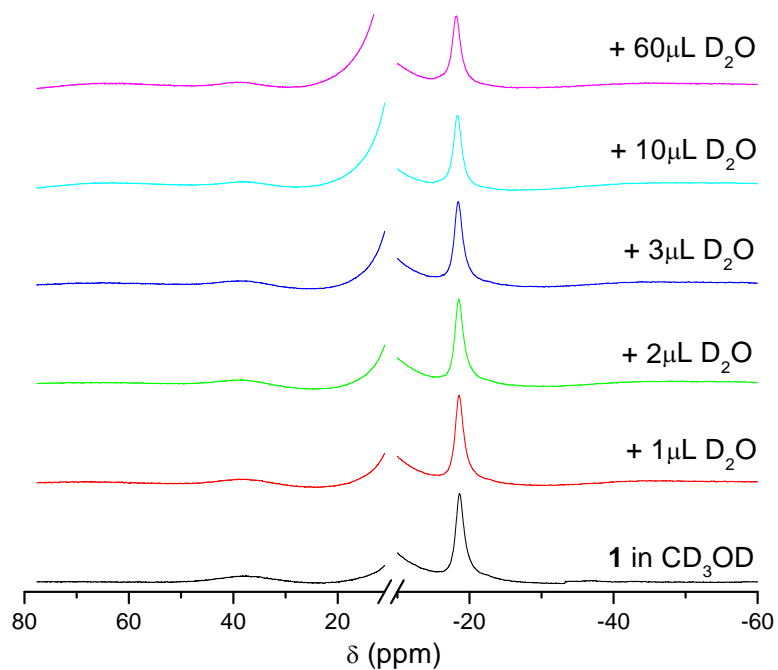


Figure S5. Time-dependence of O_2 evolution after successive additions of 130 equiv of H_2O_2 to a DMF solution of **1** (1.5 mM). $T = 298 \text{ K}$.

