Supporting Information

Spectroscopic Characterization of the Oxo-Transfer Reaction from a Bis(μ-oxo)dicopper(III) Complex to Triphenylphosphine

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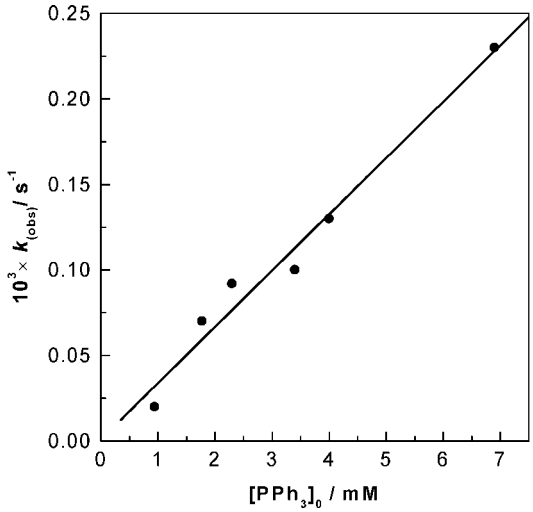

Fig. S1 Plot of the pseudo-first-order rate constant $k_{(obs)}$ obtained from analysis of initial rates as a function of $[PPh_3]_0$ for the reaction of **1** with PPh_3 in dichloromethane at 193 K under dioxygen. $[\mathbf{1}]_0 = 0.045$ mM, $[O_2]_0 = 6.58$ mM.

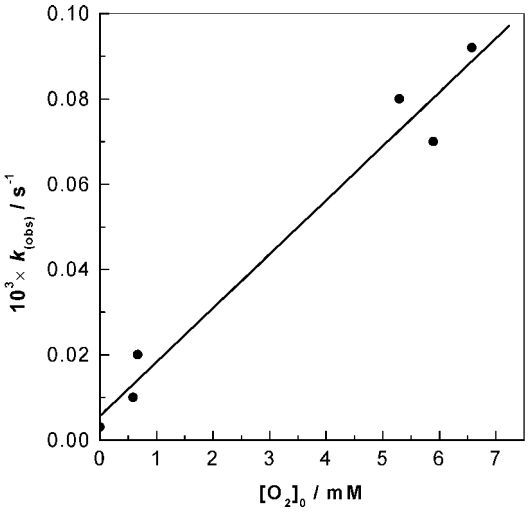

Fig. S2 Plot of the pseudo-first-order rate constant $k_{(obs)}$ obtained from analysis of initial rates as a function of $[O_2]_0$ for the reaction of **1** with PPh_3 in dichloromethane at 193 K. $[\mathbf{1}]_0 = 0.045$ mM, $[PPh_3]_0 = 2.3$ mM.

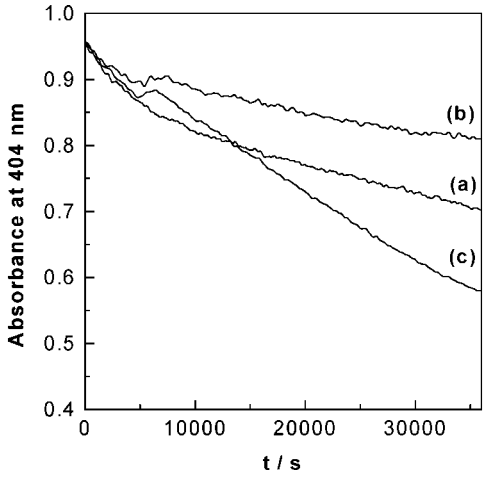

Fig. S3 Kinetic traces of the absorbance change at 404 nm during the reaction of **1** with PPh_3 in dichloromethane at 193 K under dioxygen without addition of the $O{=}PPh_3$ (**a**); and with addition of the $O{=}PPh_3$ to the reaction mixture at reaction time 5400 s (**b**, **c**). $[\mathbf{1}]_0$ = 0.04 mM, $[PPh_3]_0$ = 3.4 mM, $O{=}PPh_3$ = 1.5 mM (**b**) and 3.4 mM (**c**), $[O_2]_0$ = 6.58 mM.