

Supplementary Information for

Remarkable enhancement of catalytic activity of a 2:1 complex between a non-planar Mo(V)-porphyrin and a ruthenium-substituted Keggin-type heteropolyoxometalate in catalytic oxidation of benzyl alcohols

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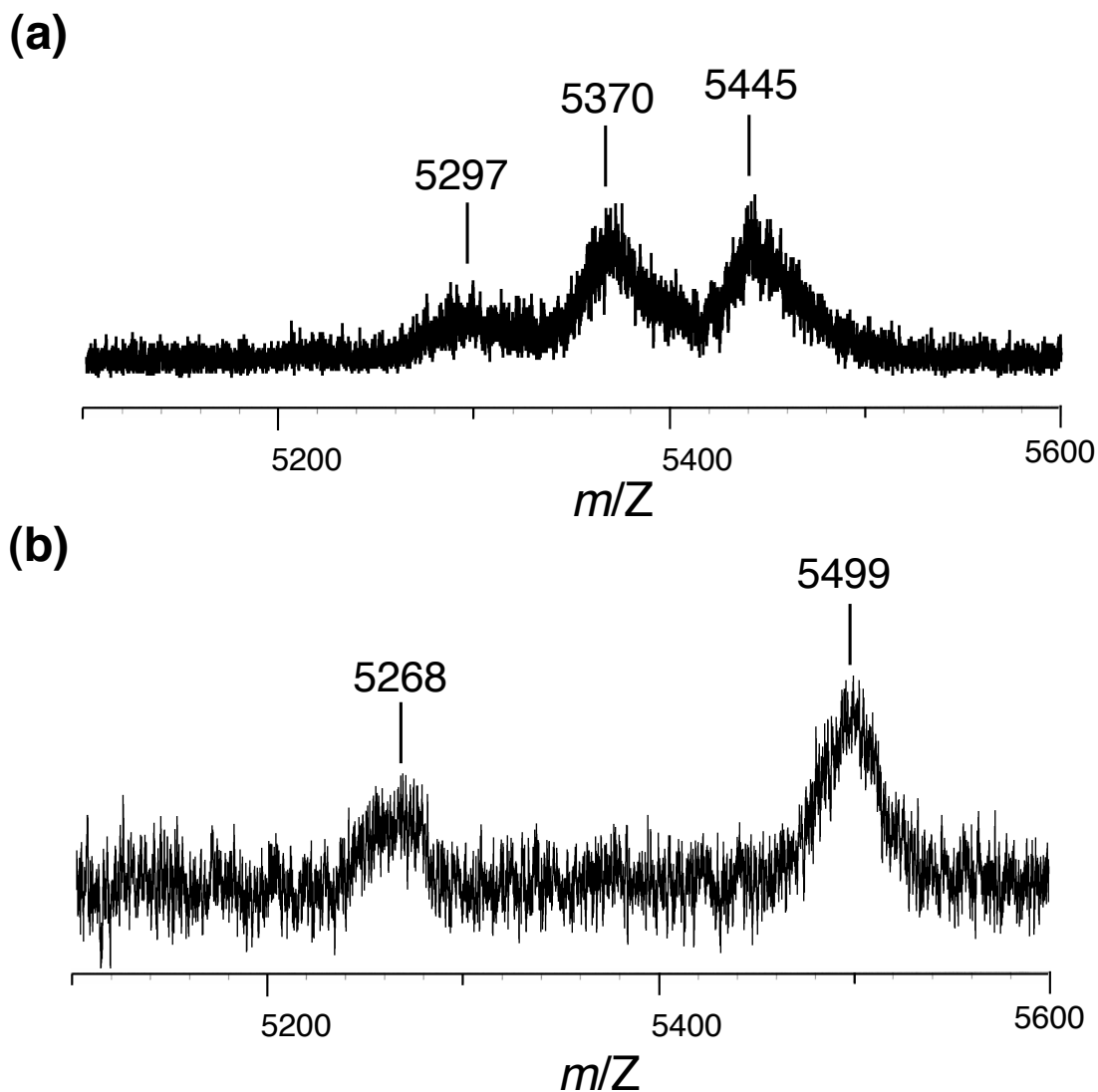


Fig. S1. MALDI-TOF-MS spectra in the negative mode: (a) **3** before the oxidation reaction; (b) after the oxidation reaction of benzylalcohol by **3** and PhIO in CDCl_3 . The peaks at $m/z = 5499$ and $m/z = 5268$ were assigned to that of $\{\mathbf{3} + \text{ClO}\}^-$ (calcd. 5497) and that of $\{\mathbf{3} - 2\text{Ph} - \text{O}\}^-$ (calcd. 5275), respectively.

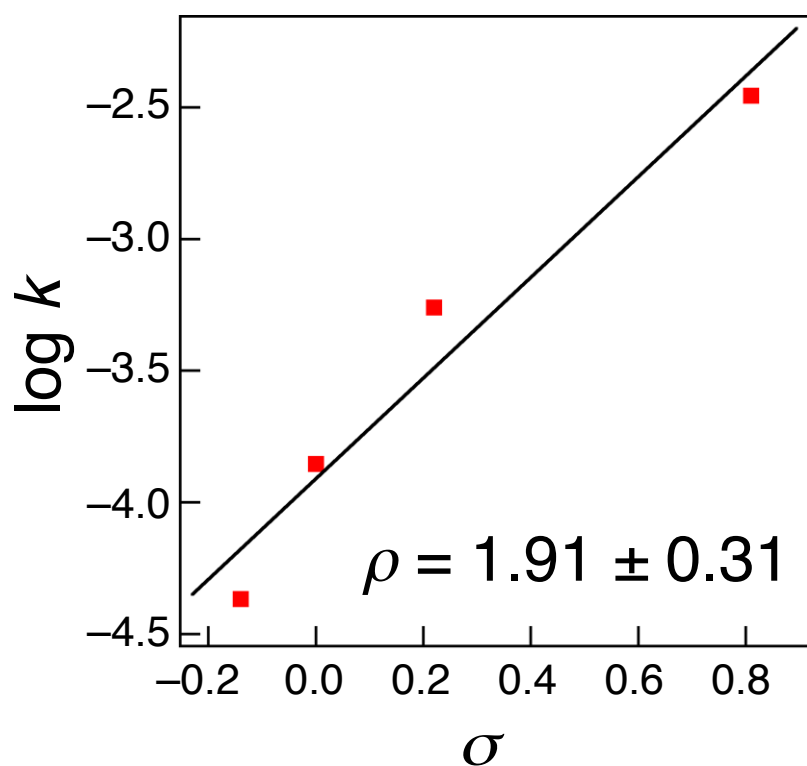


Fig. S2 A Hammett plot for the pseudo-first-order rate constants of oxidations of benzyl alcohol derivatives by **3** and PhIO in CDCl_3 . The σ values were adopted from S. H. Pine, in *Organic Chemistry (5th Ed.)*, McGraw-Hill, New York, **1987**.