

Supporting Information for

A Structural and Spectroscopic Study of Reactions between Chelating Zinc-Binding Groups and Mimics of the MMP and ADAM Catalytic Sites: The Coordination Chemistry of Metalloprotease Inhibition

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Running title: Interaction of zinc-binding ligands with $[\text{Tp}^{\text{Ph,Me}}\text{Zn}(\text{OH}_n)]^{(n-1)+}$

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Figure S1. 500 MHz 1H NMR spectra tracking the titration of $[Tp^{Ph,Me}ZnOH]$ with 4-ImHPr in CD_3OD at 25.0 °C. Solid lines mark resonances from bound 4-ImPr $^-$, dotted lines indicate the intermediate species, and * marks resonances due to free 4-ImHPr.

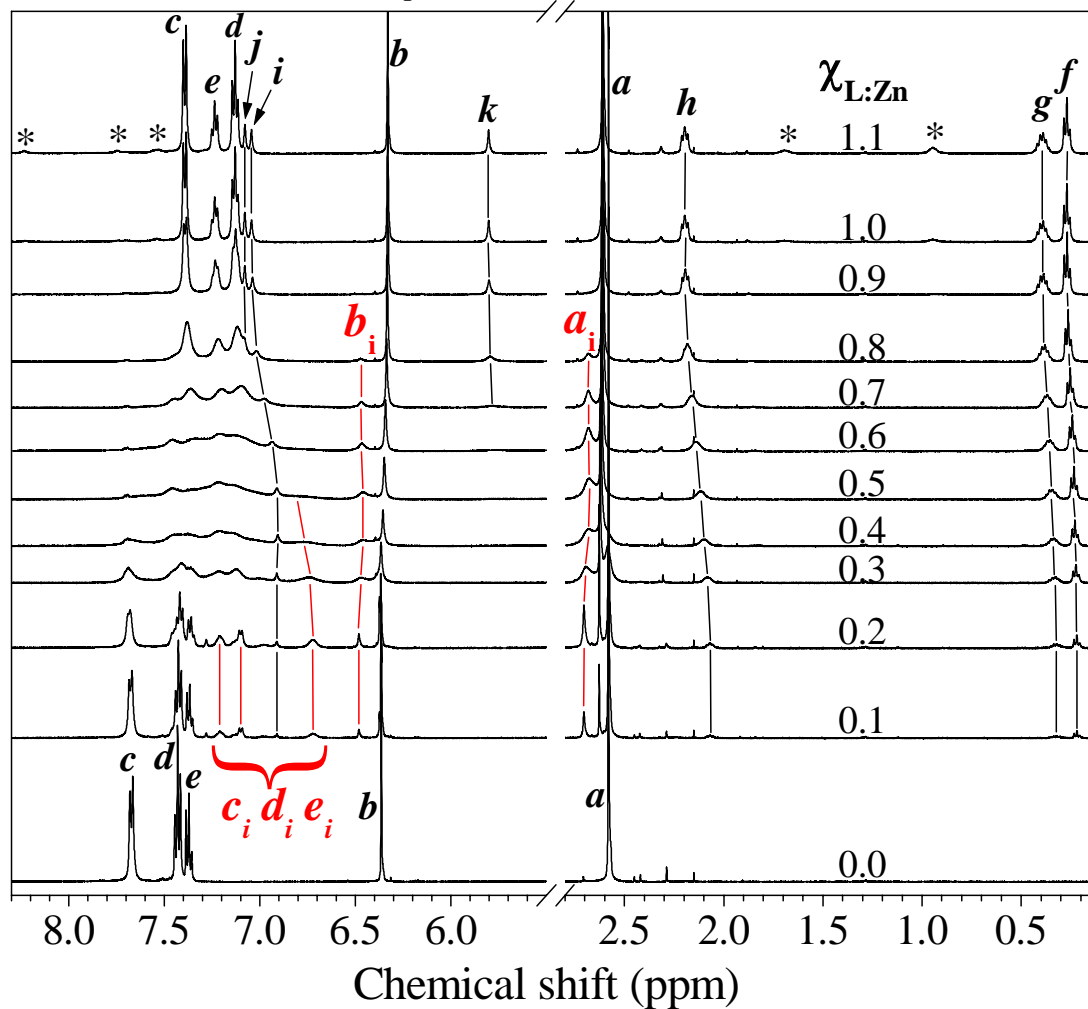


Figure S2. 1H NMR spectra tracking titration of $[Tp^{Ph,Me}ZnOH]$ in $CDCl_3$ with a CD_3OD solution of 2-HOPhPr at 25 °C. Residual water is indicated by *. Arrow heads indicate resonances from unbound 2-HOPhPr.

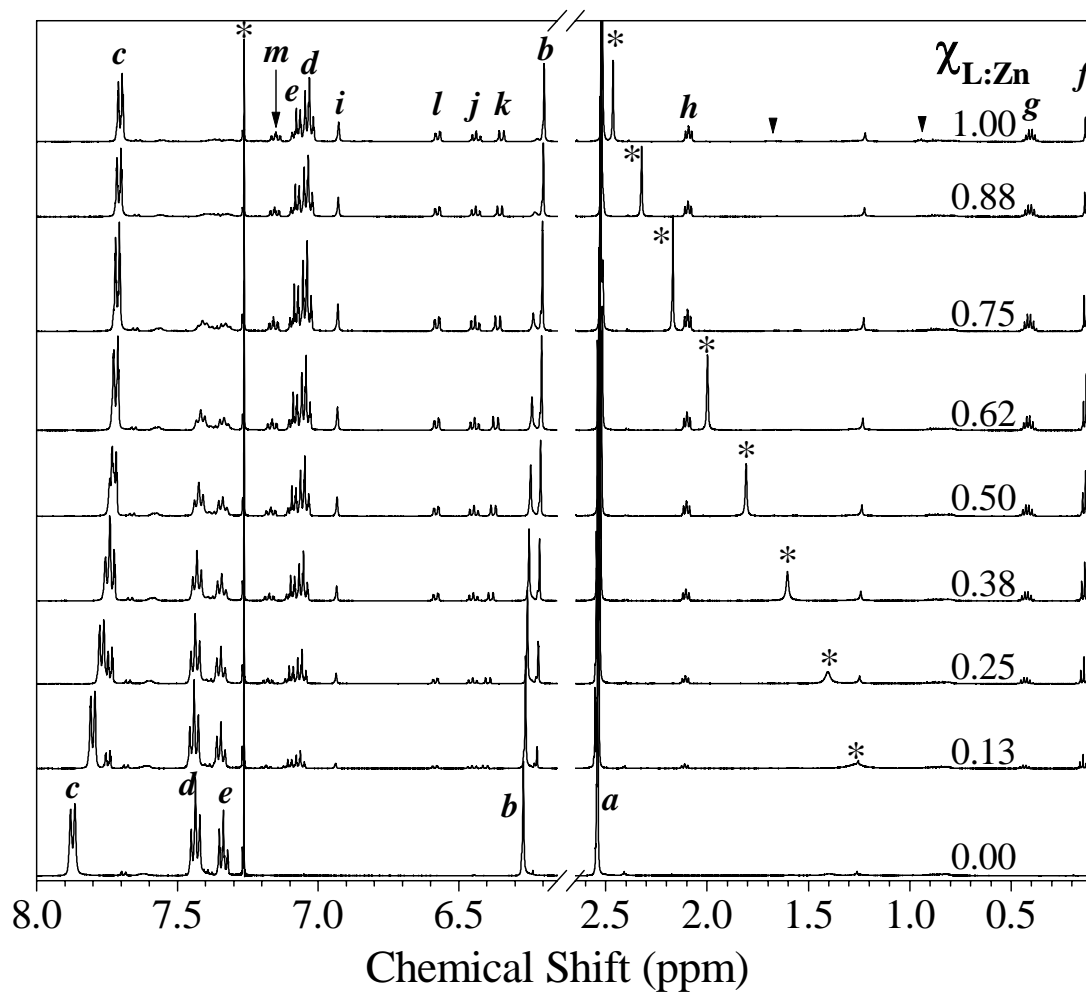


Figure S3. 1H NMR spectra tracking the titration of $[Tp^{Ph,Me}ZnOH]$ with 1-Me-2-ImPr and $HClO_4$ in CD_3OD at $25^\circ C$. The solid lines track the indicated 1-Me-2-ImPr resonances. Assignments of *i* and *k* in the final titration spectra are tentative. * marks methanol resonances.

