Supplemental data

Different coordination patterns for two related unsymmetrical compartmental ligands: Crystal structures and IR analysis of $[\text{Cu}(\text{C}_{21}\text{H}_{21}\text{O}_2\text{N}_3)(\text{OH}_2)(\text{ClO}_4)]\text{ClO}_4 \cdot 2\text{H}_2\text{O}$ and $[\text{Zn}_2(\text{C}_{22}\text{H}_{21}\text{O}_3\text{N}_2)(\text{C}_{22}\text{H}_{20}\text{O}_3\text{N}_2)]\text{ClO}_4$

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Figure S1. Comparison between the experimental powder XRD patterns of the isolated materials (i.e., complexes **1** and **2**) and those simulated from the single-crystal diffraction data.

Figure S2. ^1H - ^1H COSY correlation map for the ligand 3- $\{[\text{bis}(\text{pyridin-2-ylmethyl})\text{amino}]\text{-methyl}\}$ -2-hydroxy-5-methylbenzaldehyde, and the associated compound 2-hydroxy-3- $\{[(2\text{-hydroxybenzyl})(\text{pyridin-2-ylmethyl})\text{amino}]\text{-methyl}\}$ -5-methylbenzaldehyde, **H₂L2**.