Supporting Information for:

Concentration- and Time-Dependent Eccentric Changes in Circular Dichroism of Saccharide-Linked Ethynylpyridine Oligomer with Copper(II) Ions

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Contents

Figures S1–S5 S2

$^1$H and $^{13}$C NMR spectra for compounds 2, 4–7, 9–17 S5
Figure S1. UV-vis spectra of 2 and a mixture of 2 and Cu(OTf)$_2$. [Cu(OTf)$_2$]/[2 unit] = 0.5. (black solid) 2 (6.3 × 10$^{-5}$ M, unit conc. = 5.0 × 10$^{-4}$ M) only; (deep blue solid) a mixture of 2 (6.3 × 10$^{-5}$ M, unit conc. = 5.0 × 10$^{-4}$ M) and Cu(OTf)$_2$ (2.5 × 10$^{-4}$ M), (light blue dotted, overriding deep blue solid line) after 8.5 h. Conditions: DCE, 25 °C. Path length = 1 mm. Black broken line represents a CH$_2$Cl$_2$ solution of Cu(OTf)$_2$ (5.0 × 10$^{-4}$ M).

Figure S2. UV-vis spectra of 2 and a mixture of 2 and Cu(OTf)$_2$. [Cu(OTf)$_2$]/[2 unit] = 2.0. (black solid) 2 (6.3 × 10$^{-5}$ M, unit conc. = 5.0 × 10$^{-4}$ M) only; (deep red solid) a mixture of 2 (6.3 × 10$^{-5}$ M, unit conc. = 5.0 × 10$^{-4}$ M) and Cu(OTf)$_2$ (1.0 × 10$^{-3}$ M), 0 h, (light red dotted) after 197 h. Conditions: DCE, 25 °C. Path length = 1 mm. Black broken line represents a CH$_2$Cl$_2$ solution of Cu(OTf)$_2$ (5.0 × 10$^{-4}$ M).
Figure S3. A time-dependent change of CD spectrum of \( \mathbf{2} \) \((8.8 \times 10^{-4} \text{ M, unit conc.} = 7.0 \times 10^{-3} \text{ M})/\text{Cu(OTf)}_2 \) \((3.5 \times 10^{-3} \text{ M}) \) mixture. \([\text{Cu(OTf)}_2]/[\mathbf{2} \text{ unit}] = 0.5\). Conditions: \( \mathbf{2} \), Cu(OTf)$_2$, DCE, 25 °C. Path length = 1 mm.

Figure S4. ESI-MS spectrum measured for a mixture of \( \mathbf{2} \) and Cu(OTf)$_2$. Conditions: \( \mathbf{2} \) \((7 \text{ mM})\), Cu(OTf)$_2$ \((3.5 \text{ mM})\), DCE, measured after mixing for 10 min.
Figure S5. $^1$H NMR spectrum measured for a mixture of 2 and Cu(OTf)$_2$. Conditions: 2 (5 mM), Cu(OTf)$_2$ (2.5 mM), CDCl$_3$, 30 min, 23 °C, measured after mixing for 30 min.
$^1$H and $^{13}$C NMR spectra (300 MHz)