Supplementary Information

Supramolecular Architecture of Tetrathiafulvalene Bridged Bis(*β*-Cyclodextrin) with Porphyrin and Its Photophysical Behaviors

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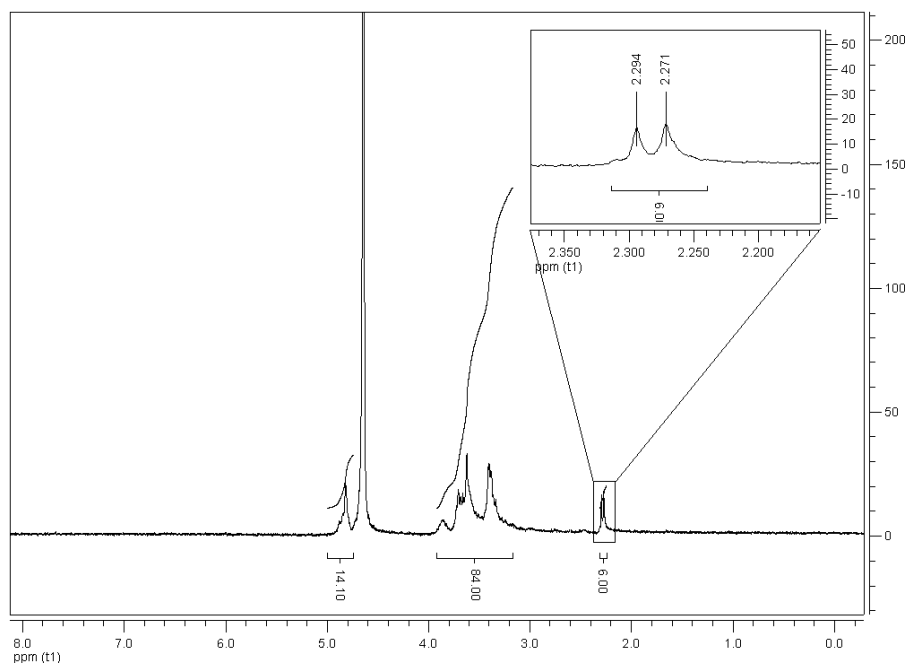
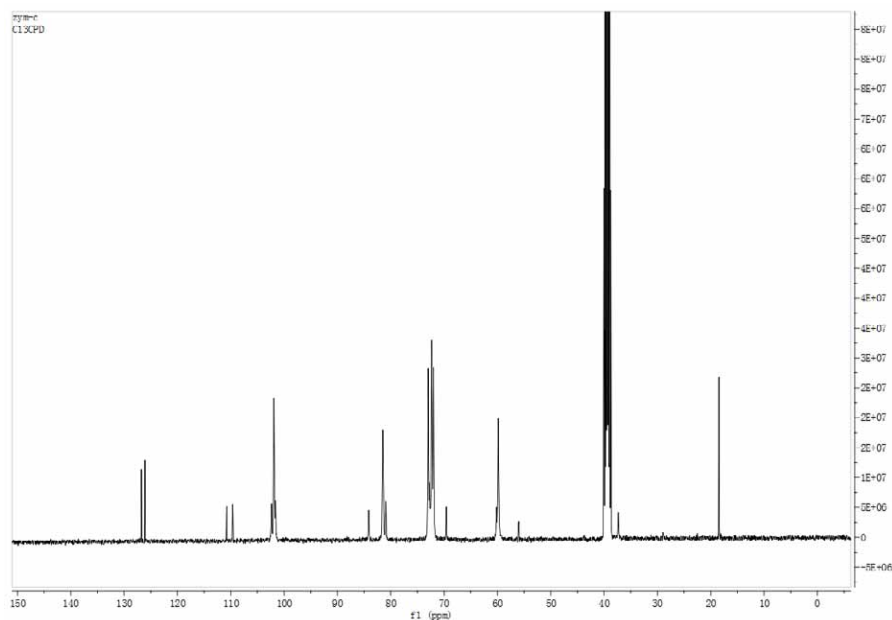Figure S1. ^{1}H NMR (400 MHz, D$_2$O, ppm) spectrum of **3.** Inset: Magnified area of -SCH$_3$ protons.

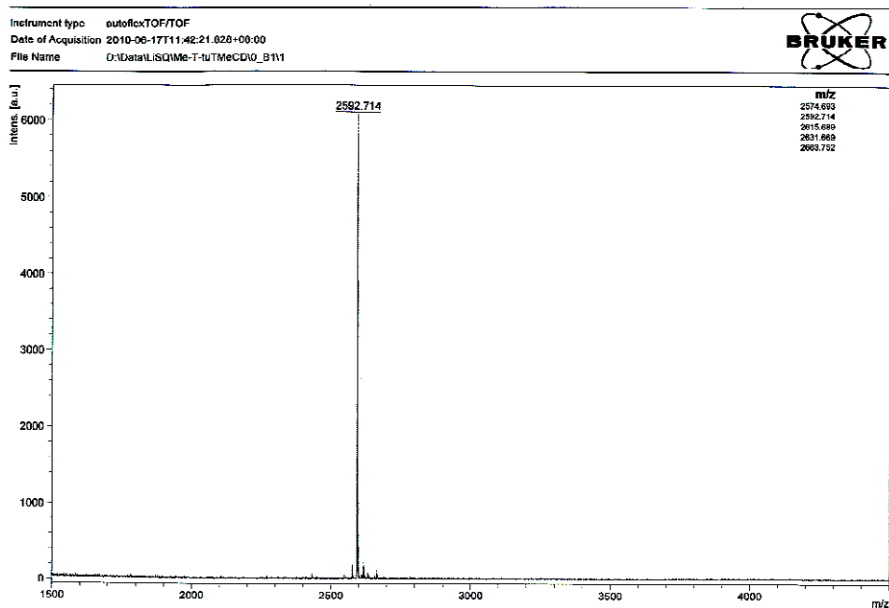Figure S2. ^{13}C NMR (100 MHz, DMSO-d_6, ppm) spectrum of **3**.
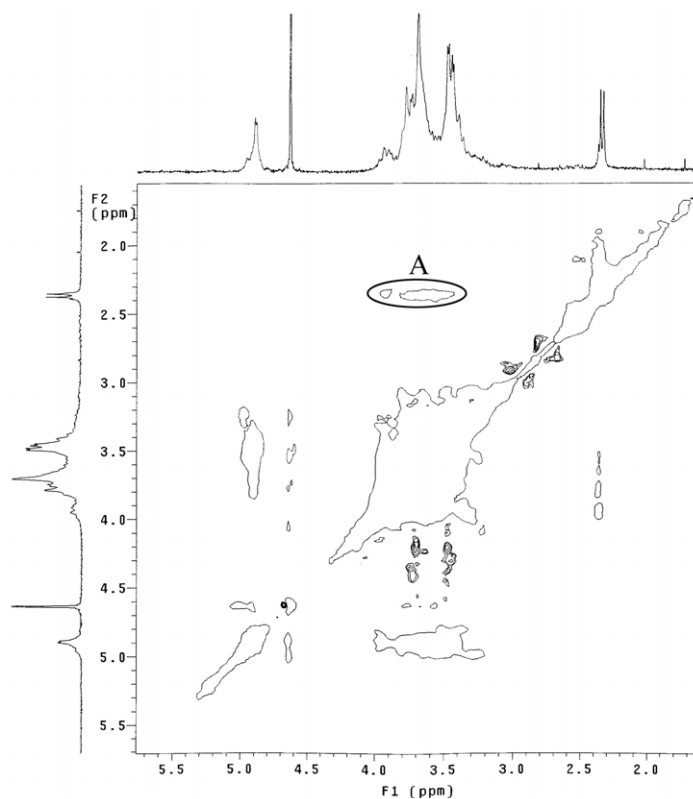
Figure S3. MALDI-TOF spectra of **3**.

Figure S4. 2D NOESY spectrum (300 MHz) of **3** ([**3**] = 1.0×10^{-3} M) in D_2O at 25 ºC. Peaks A
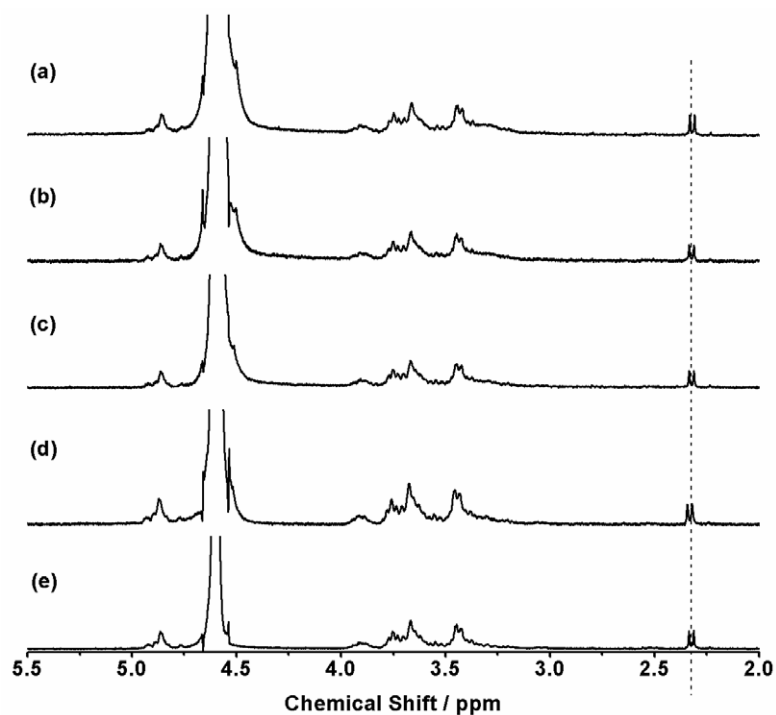
corresponded to the NOE cross-peaks between -SCH$_3$ and CDs.

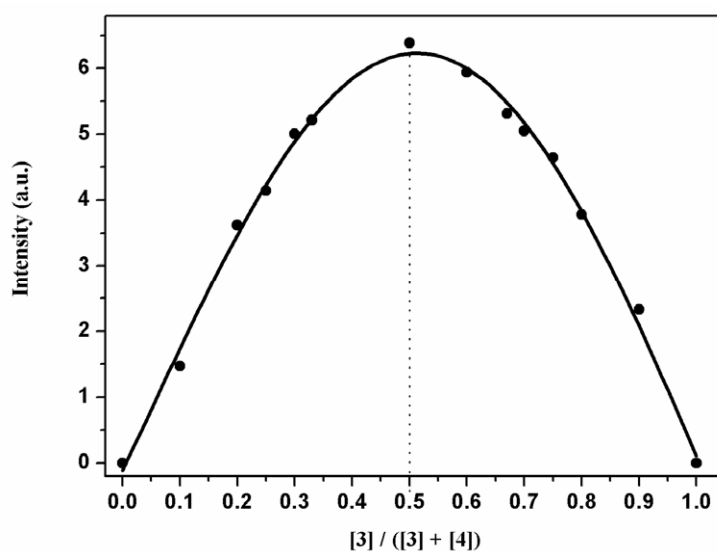Figure S5. ^{1}H NMR titration of **3** (3.1-9.5 × 10^{-4} M, from a to e) in D$_2$O at 25 °C.

Figure S6. Job's plot of the **3**/**4** system in NaH$_2$PO$_4$-Na$_2$HPO$_4$ buffer solution (pH 7.2) at 643 nm.

$([\mathbf{3}] + [\mathbf{4}] = 1 \times 10^{-5}\,\text{M}, \lambda_{ex} = 422\,\text{nm})$.

Figure S7. 2D ROESY spectrum (300 MHz) of a mixture of **3** and **4** ($[\mathbf{3}] = [\mathbf{4}] = 1.0 \times 10^{-3}$ M) in D$_2$O at 25 ºC. Peaks A and B corresponded to the NOE cross-peaks between porphyrins and CDs.
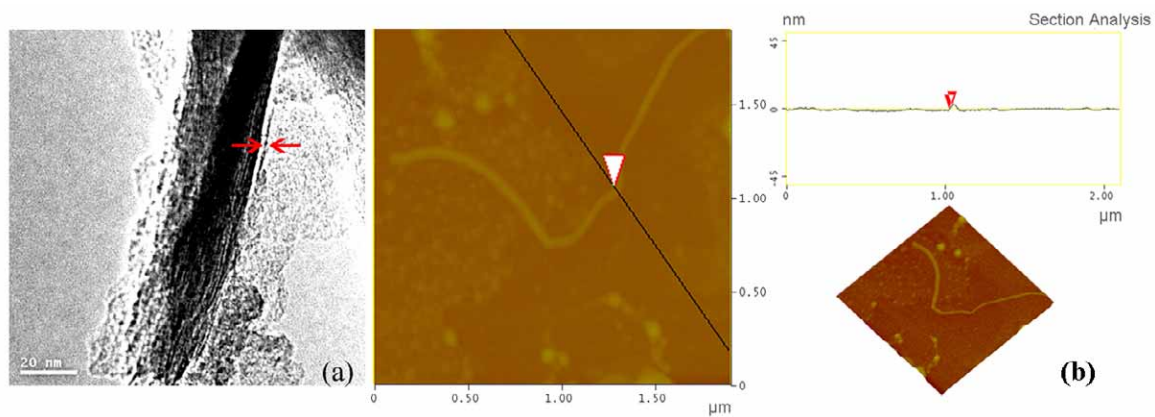
Figure S8. TEM (a) and AFM (b) images of the linear assembly.