

A supramolecular polymer with dual-responsiveness constructed by crown ether based molecular recognition

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Electronic Supplementary Information (10 pages)

1. *Synthesis of monomer 1*

S2

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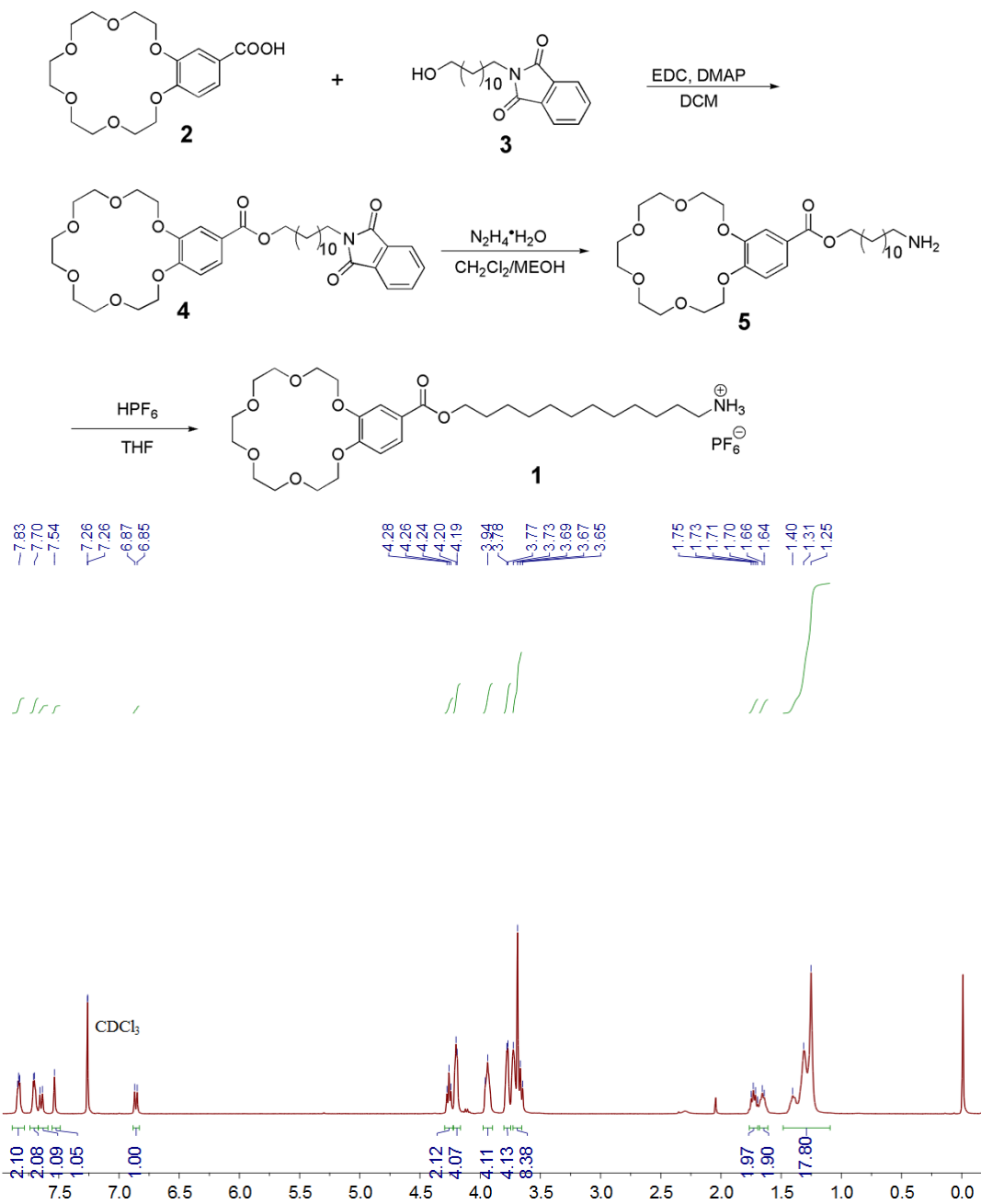


Figure S1. $^1\text{H NMR}$ spectrum (CDCl₃, 293 K, 400 MHz) of 4.

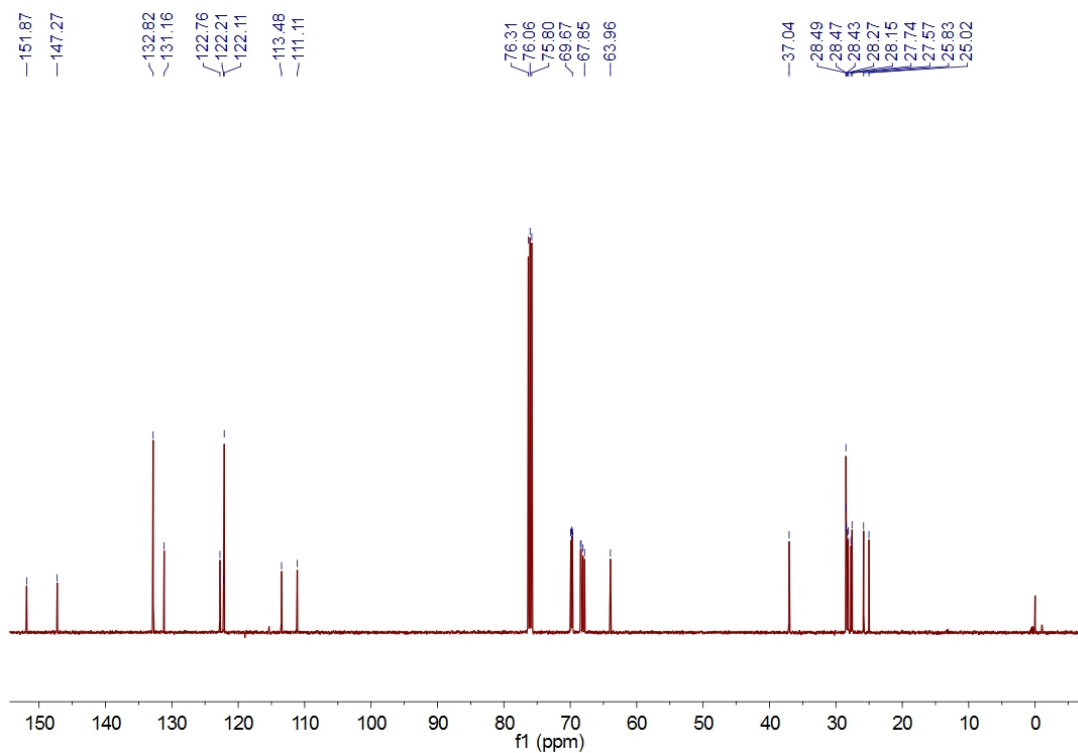


Figure S2. ^{13}C NMR spectrum (CDCl_3 , 293 K, 125 MHz) of **4**.

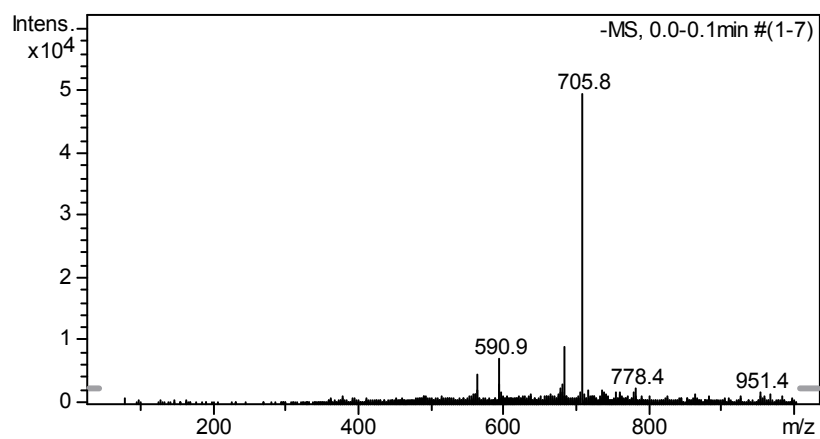


Figure S3. Electrospray ionization mass spectrum of **4**. Main peak: m/z 705.8 $[\text{M} + \text{Cl}]^-$ (100%).

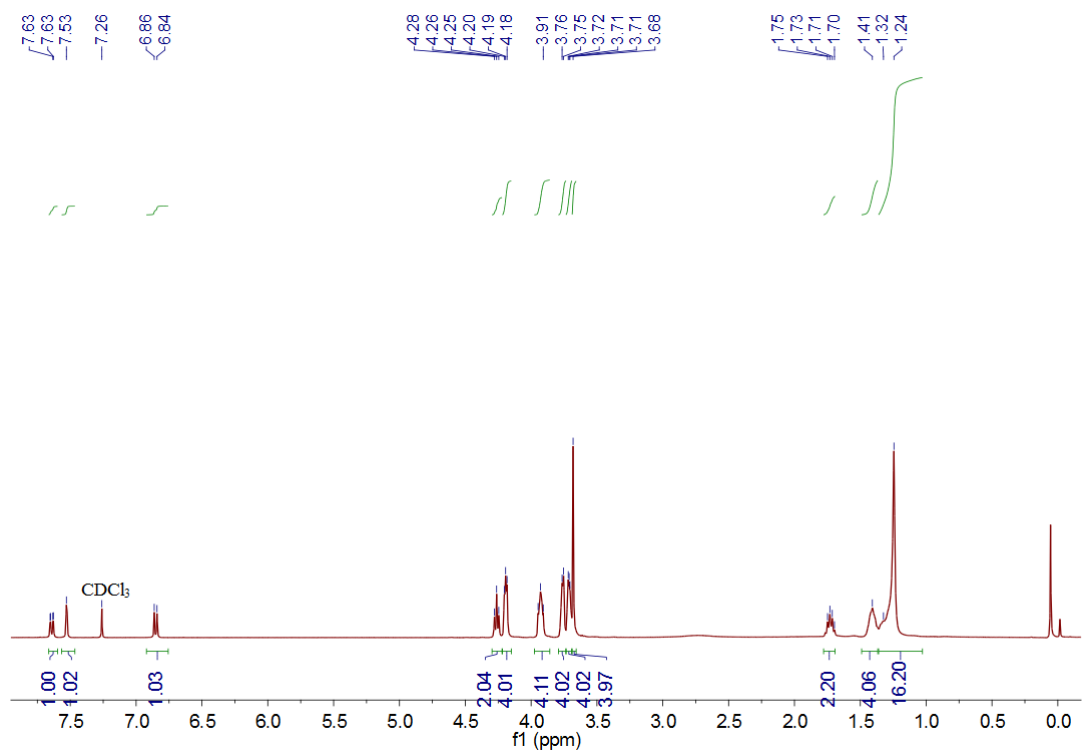


Figure S4. ^1H NMR spectrum (CDCl_3 , 293 K, 400 MHz) of **5**.

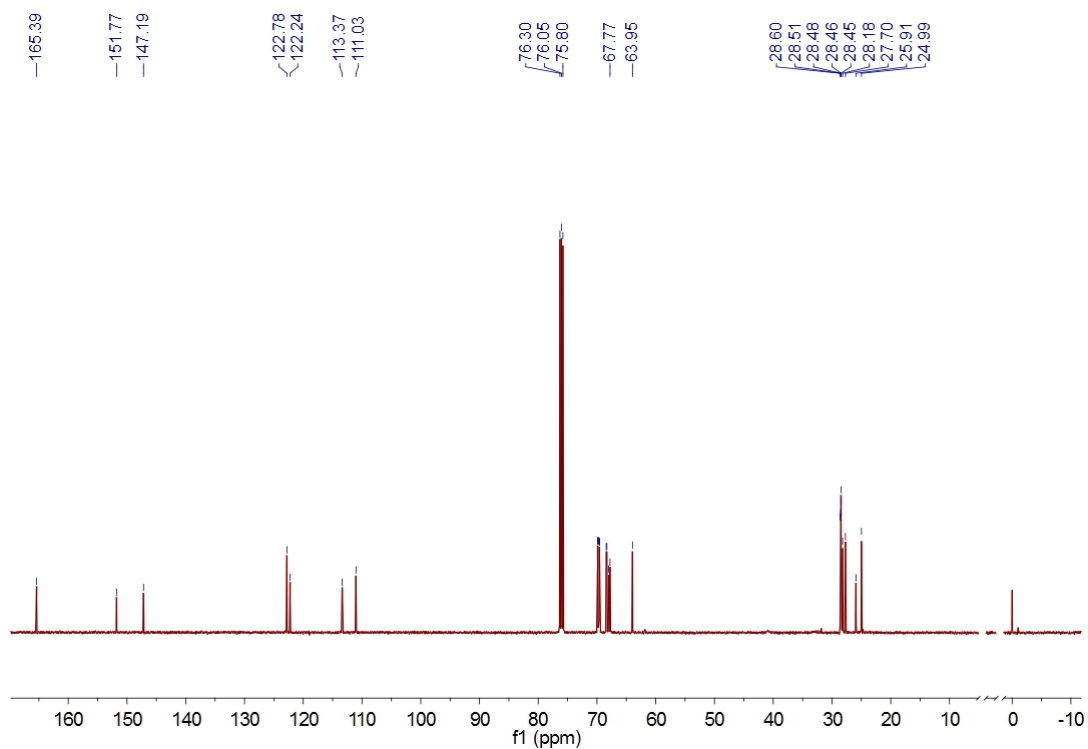


Figure S5. ^{13}C NMR spectrum (CDCl_3 , 293 K, 125 MHz) of **5**.

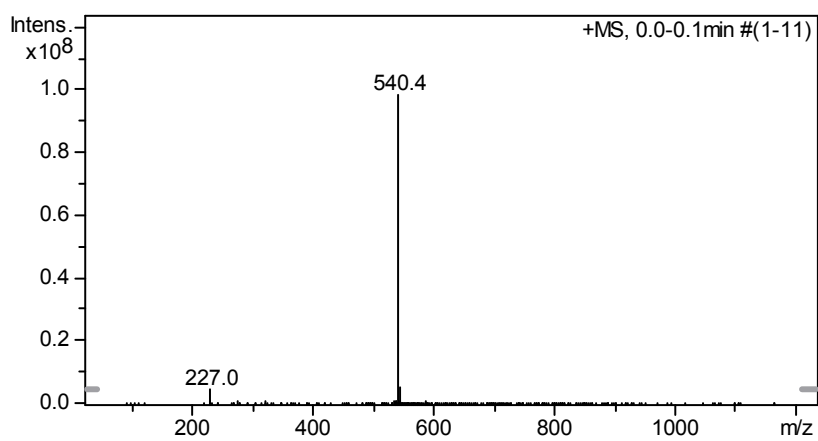


Figure S6. Electrospray ionization mass spectrum of **5**. Main peak: m/z 540.4 $[M + H]^+$ (100%).

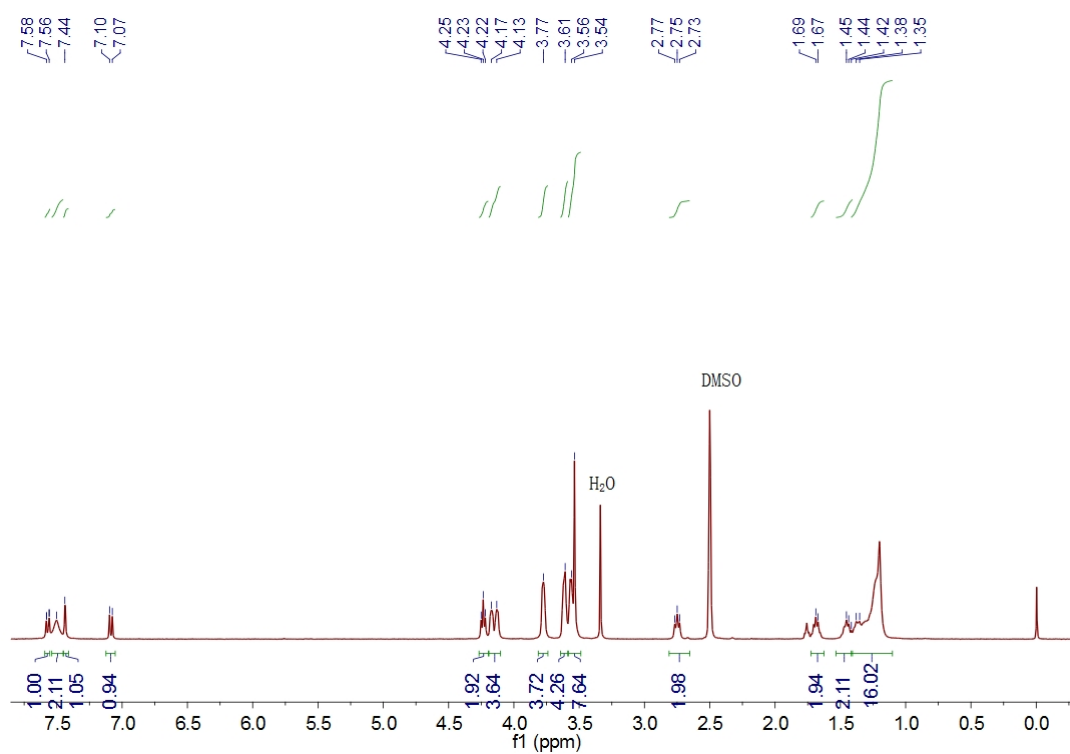


Figure S7. ^1H NMR spectrum (DMSO , 293 K, 400 MHz) of **1**.

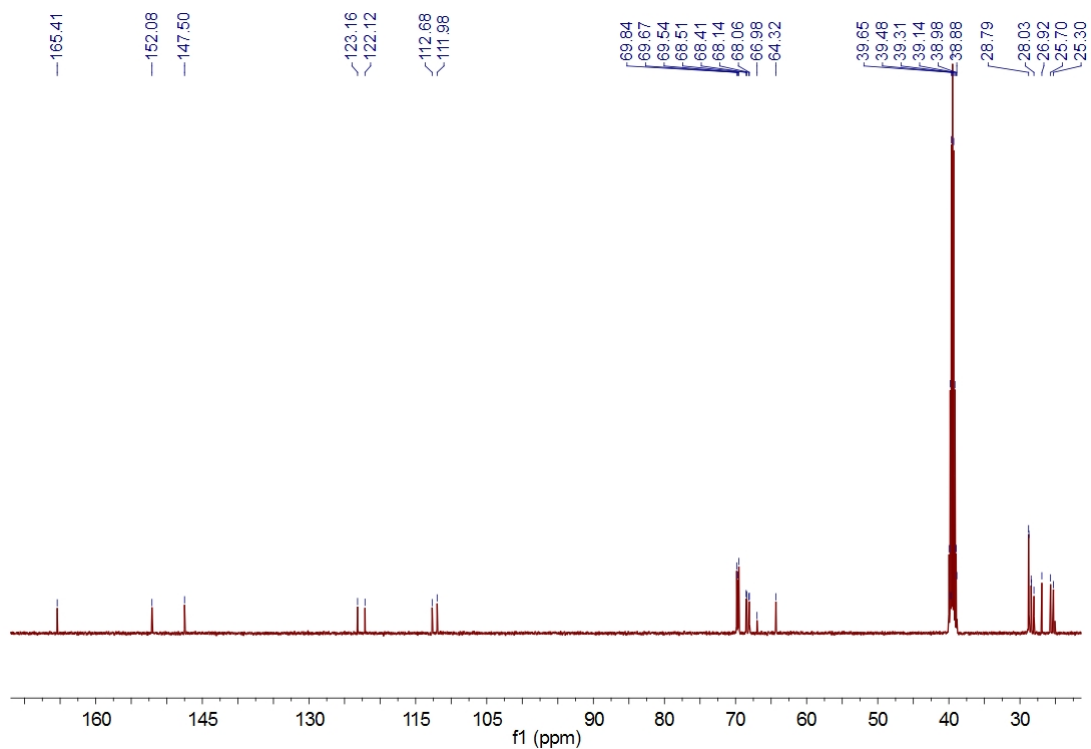


Figure S8. ^{13}C NMR spectrum (DMSO, 293 K, 125 MHz) of **1**.

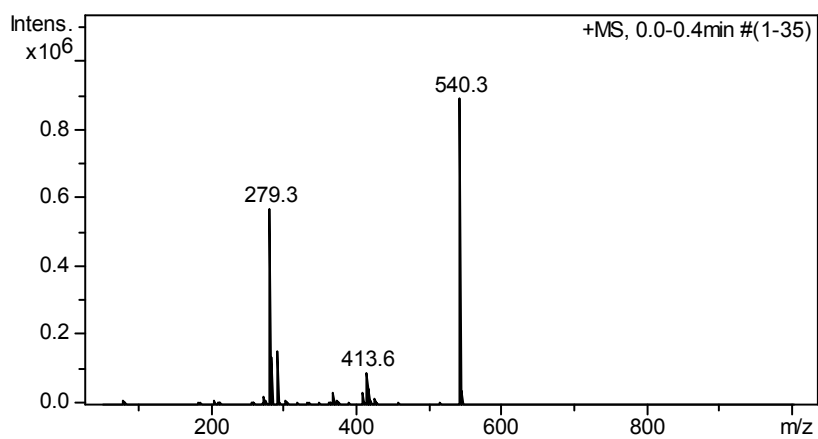


Figure S9. Electrospray ionization mass spectrum of **1**. Main peak: m/z 540.3 $[\text{M} - \text{PF}_6]^+$ (100%).