Supplementary Materials

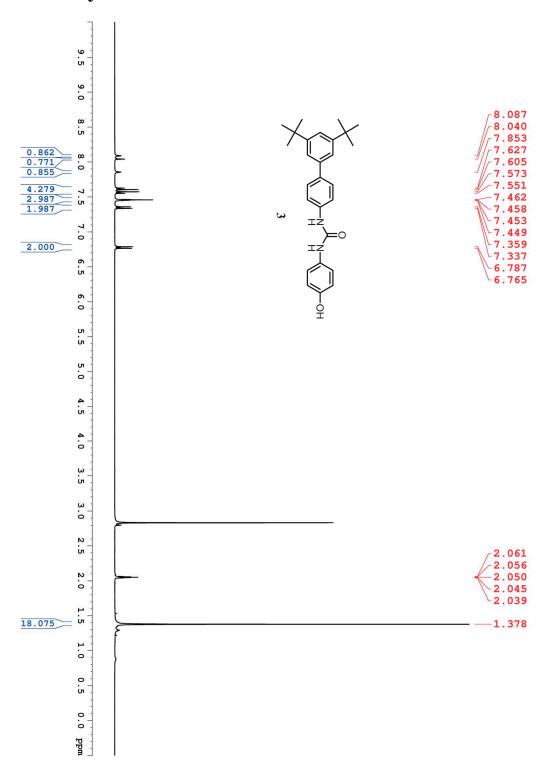


Figure S1. Cout.

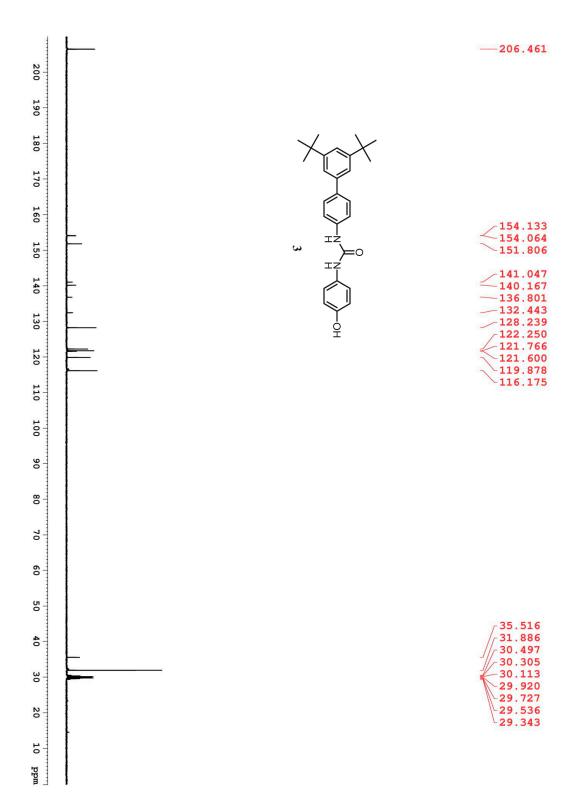


Figure S1. ¹H and ¹³C-NMR Spectra of the Urea 3.

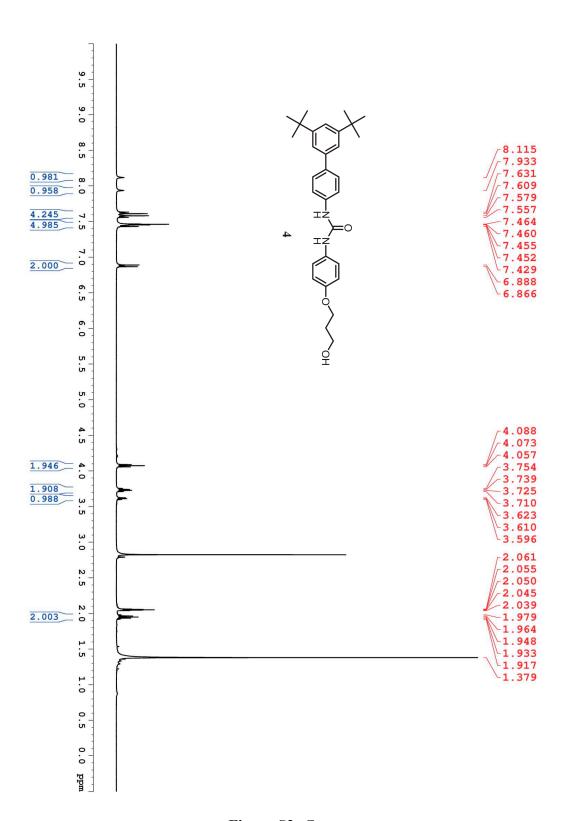


Figure S2. Cout.

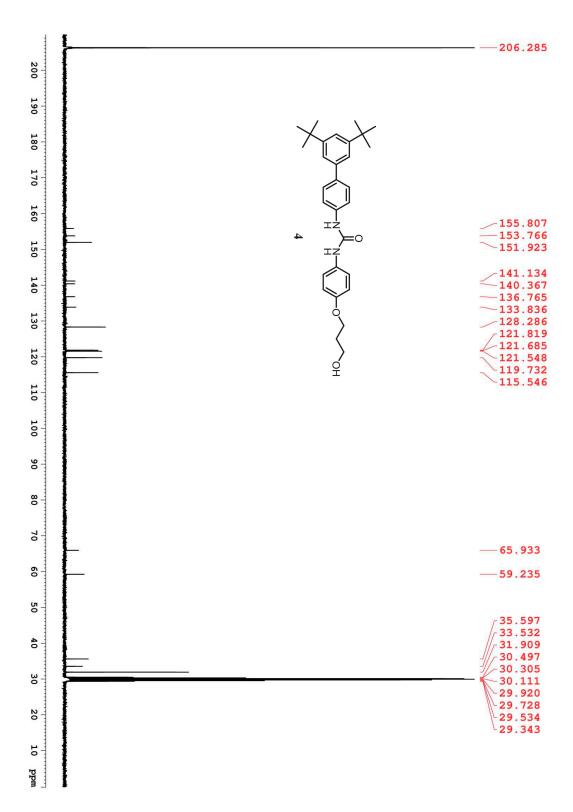


Figure S2. ¹H and ¹³C-NMR Spectra of the Urea **4**.

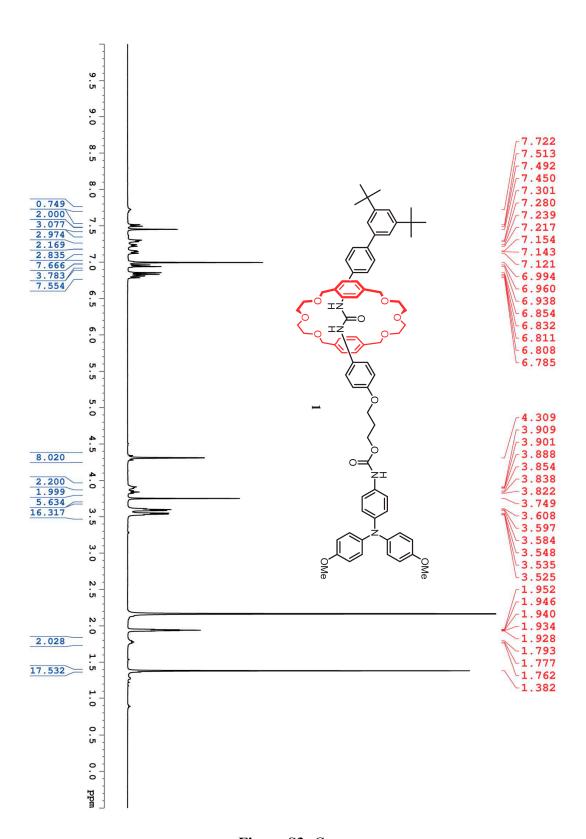


Figure S3. Cout.

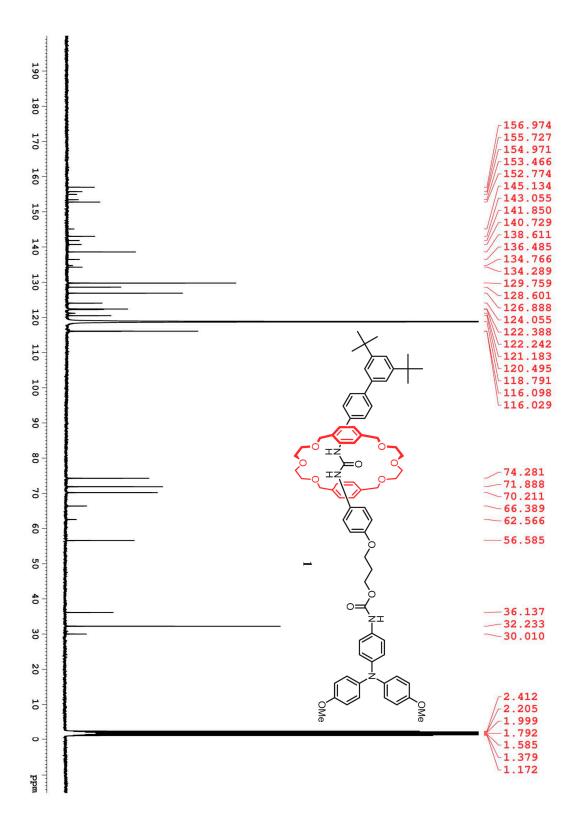


Figure S3. ¹H and ¹³C-NMR Spectra of the [2]Rotaxane 1.

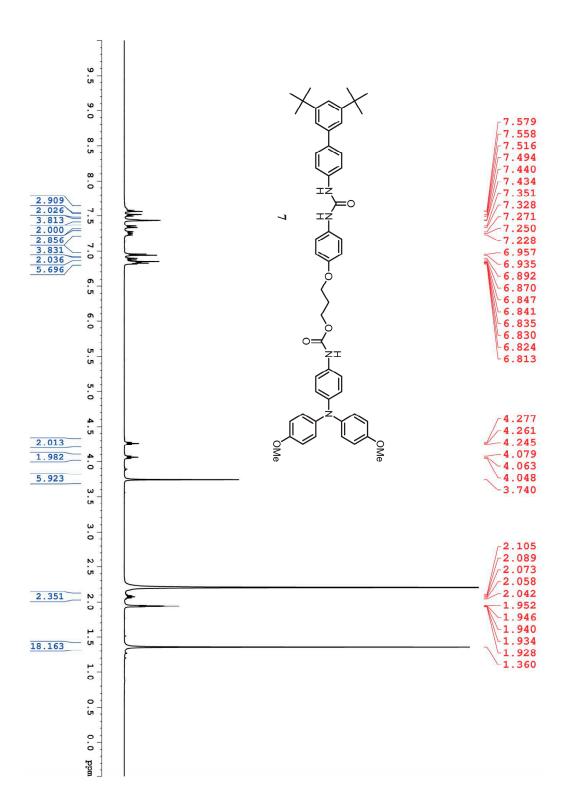


Figure S4. Cout.

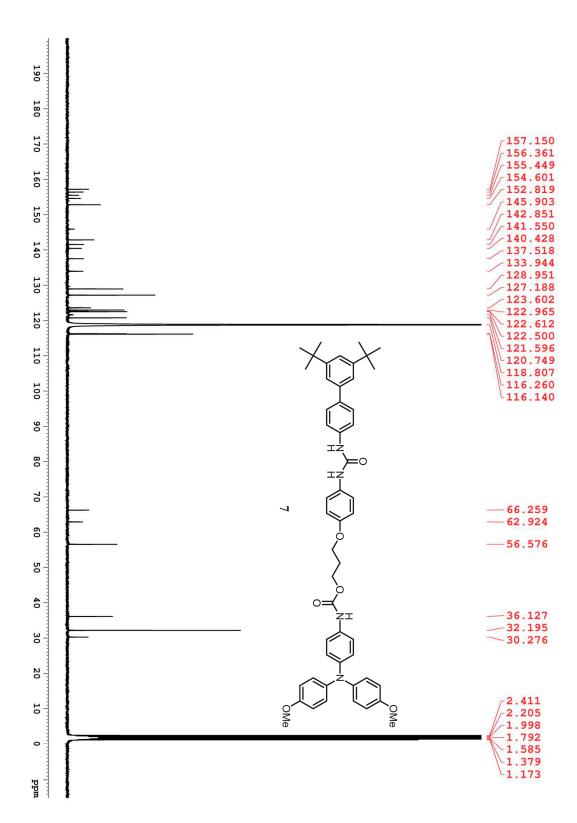


Figure S4. ¹H and ¹³C-NMR Spectra of the Dumbbell **7**.

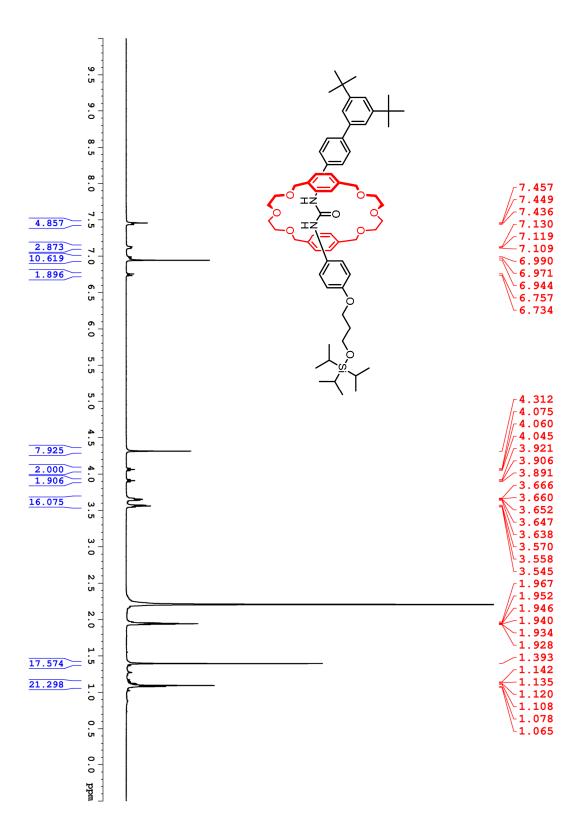


Figure S5. Cout.

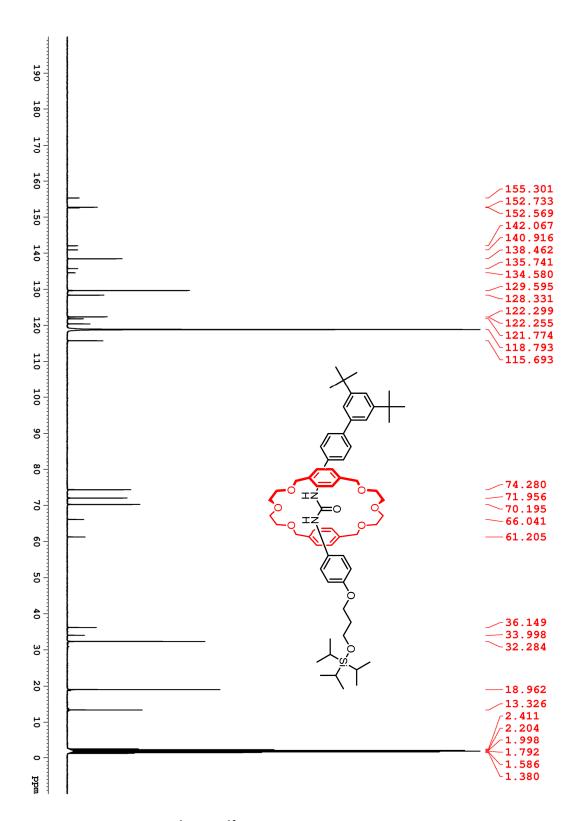


Figure S5. ¹H and ¹³C-NMR Spectra of the [2]Rotaxane **8**.

COSY Spectrum (400 MHz, CD₃CN, 298 K) of [2]rotaxane 1

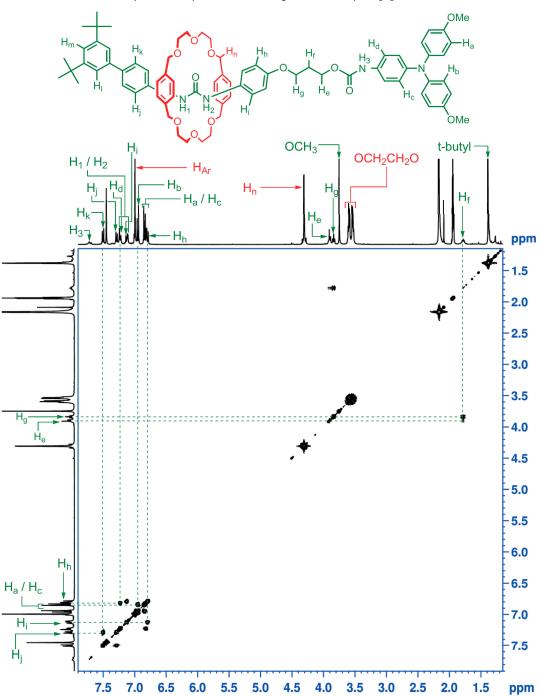


Figure S6. Cout.

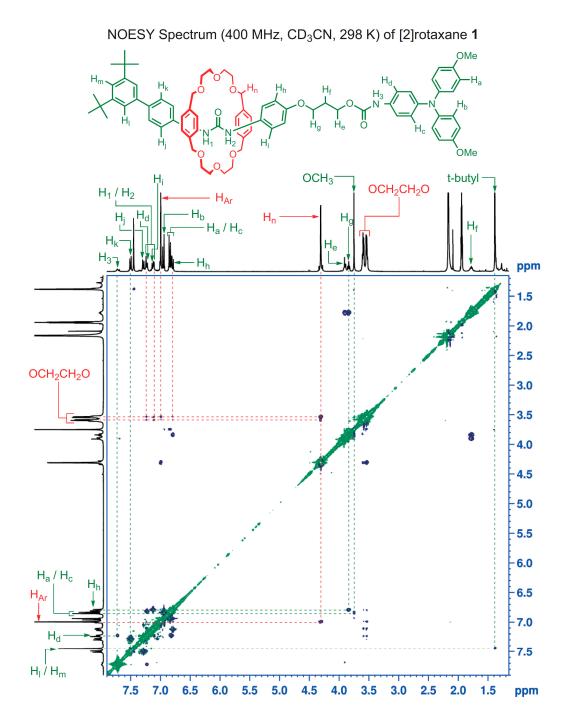


Figure S6. 2D COSY and NOSEY Spectra of the [2]Rotaxane 1.

Partial COSY Spectrum (400 MHz, CD $_3$ CN, 298 K) of the equimolar mixture of [2]rotaxane **1** and NOBF $_4$ (6 mM)

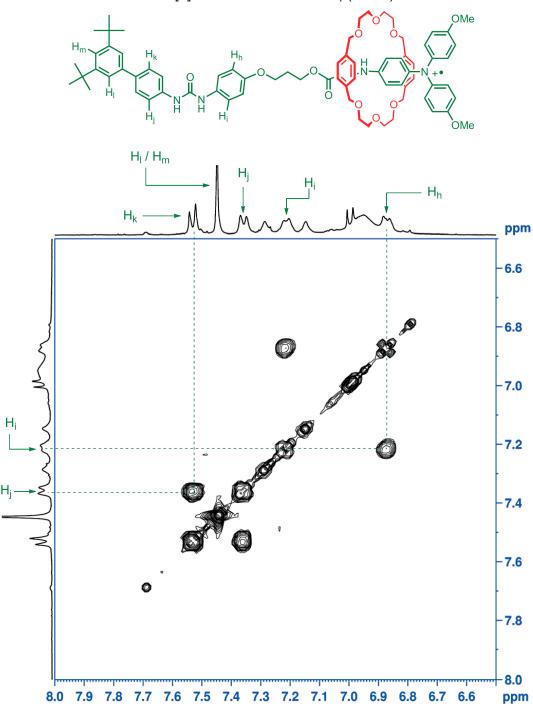


Figure S7. Partial 2D COSY Spectra of the equimolar mixture of [2]Rotaxane 1 and NOBF4 (6 mM).