

Synthesis of new decasubstituted pillar[5]arenes containing glycine fragments and their interactions with Bismarck brown Y

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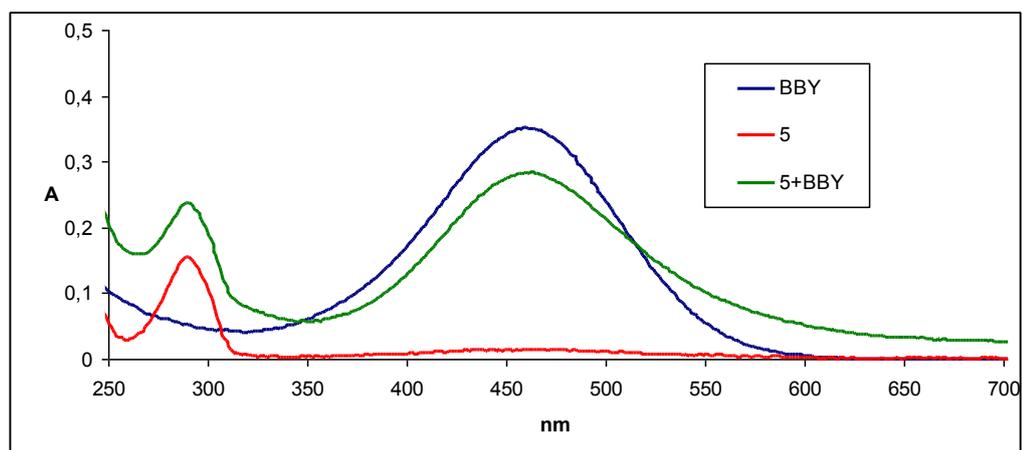


Figure S1 UV spectra of pillar[5]arene **5** (1×10^{-5} M), BBY (1×10^{-5} M) and mixture – BBY (1×10^{-5} M) and pillar[4]arene **5** (1×10^{-5} M).

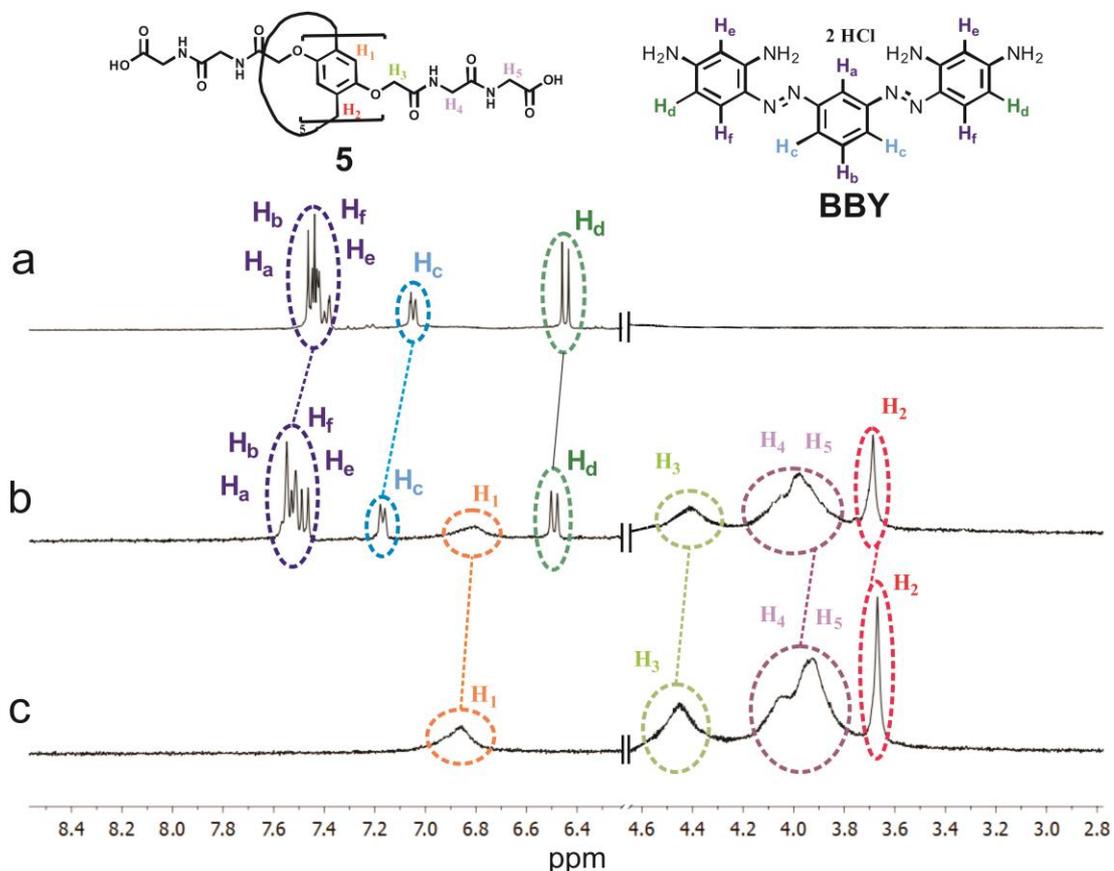


Figure S2 ^1H NMR spectra (D_2O , 293K, 400MHz): a) BBY (1×10^{-4} M); b) pillar[5]arene **5** (1×10^{-4} M) + BBY (1×10^{-4} M); c) pillar[5]arene **5** (1×10^{-4} M).

Table S1 Size of particles and polydispersity index obtained macrocycles **1**, **4** and **5** with BBY at different concentration in water.

Concentration	Size of particles (nm); PDI		
	4 + BBY	5 + BBY	1 + BBY
1×10^{-3} M	-	-	-
1×10^{-4} M	146 (0.34)	358 (0.27)	-
1×10^{-5} M	-	400 (0.17)	197 (0.57)

Table S2 Size of particles and polydispersity index based on self-associates obtained with macrocycles **4** and **5** at different concentrations in water.

Concentration	Size of particles (nm); PDI	
	4	5
1×10^{-3} M	-	195 (0.15)
1×10^{-4} M	402 (0.30)	159 (0.37)
1×10^{-5} M	-	617 (0.31)