

## Supporting Information

### **Change of the kinetics of inclusion in cucurbit[7]uril upon hydrogenation and methylation of palmatine**

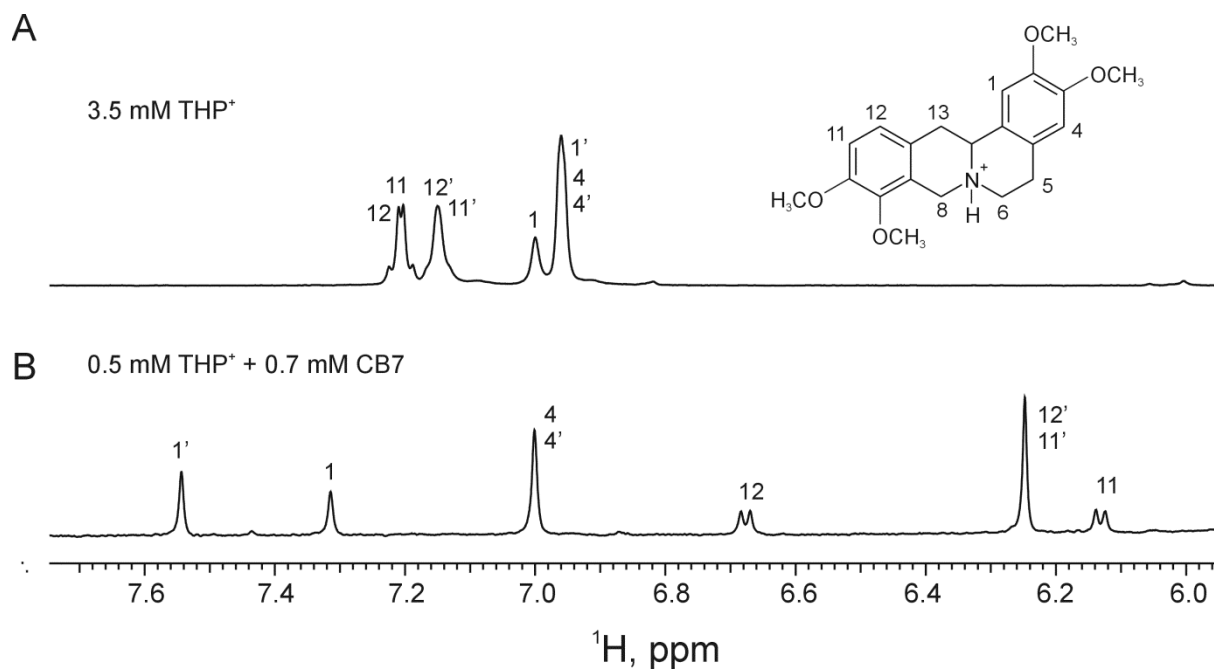
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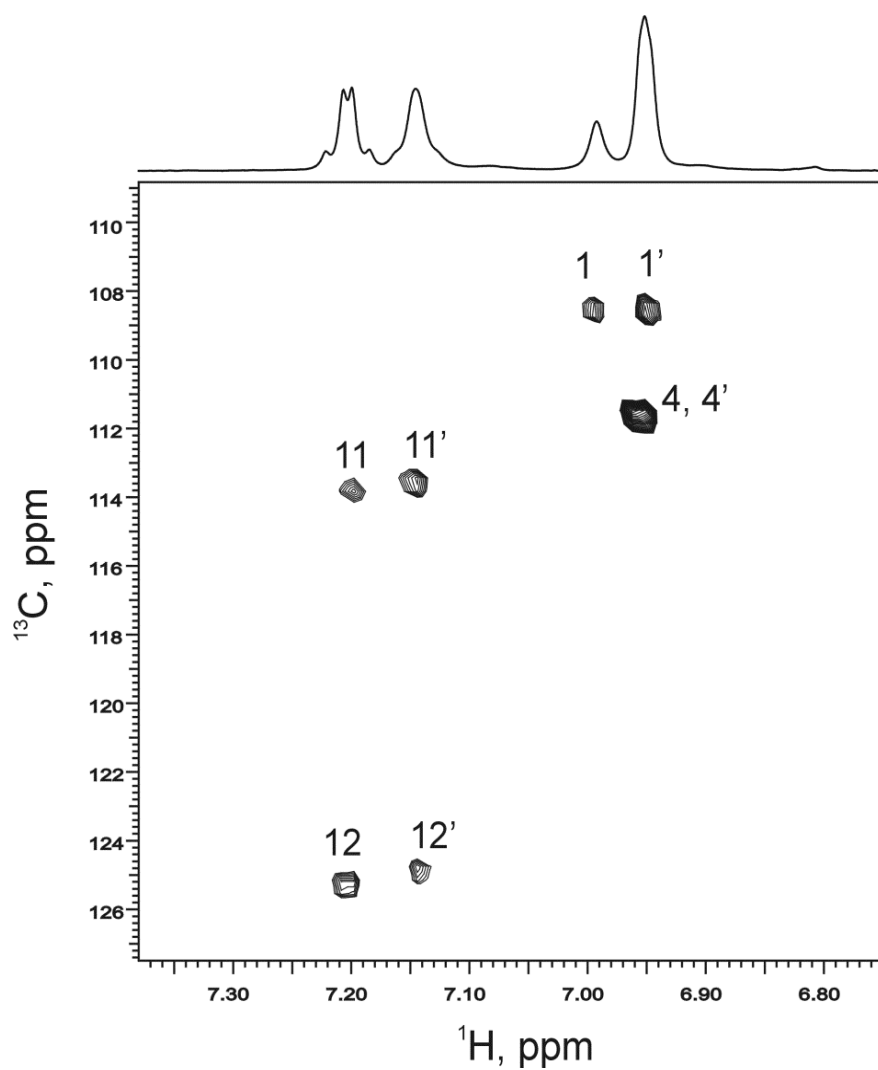
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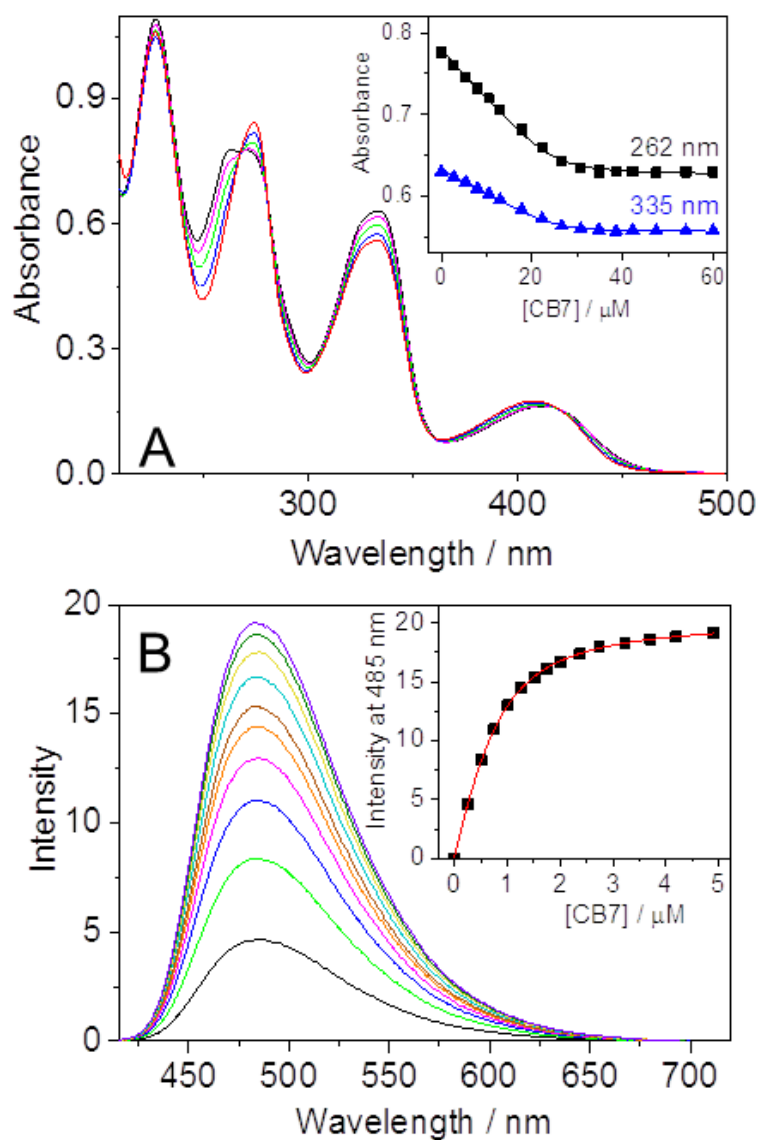
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**Figure S1** Aromatic proton region of the  $^1\text{H}$  NMR spectra of THP<sup>+</sup> (A) in the absence of CB7, (B) 1:1.4 [THP<sup>+</sup>]:[CB7] molar ratio in 0.1 mM DCl D<sub>2</sub>O solutions at 298 K. The two conformers of THP<sup>+</sup> are marked with and without primes.



**Figure S2** Aromatic region of  $^1\text{H}$ - $^{13}\text{C}$  HSQC NMR spectrum of  $\text{THP}^+$  in 0.1 mM DCl  $\text{D}_2\text{O}$  solution at 298 K. The two conformers of  $\text{THP}^+$  are marked with and without primes.



**Figure S3** (A) Effect of 0, 5.4, 13, 22, and 60 μM CB7 addition on the absorption spectrum of 28.4 μM DHC<sup>+</sup> in water. Inset: absorbance change at 262 and 335 nm. (B) Alteration of the fluorescence spectrum of 0.75 μM DHC<sup>+</sup> upon increase of CB7 concentration in the 0.25 – 4.9 μM range (excitation at 335 nm). Inset: rise of the fluorescence intensity at 485 nm with CB7 concentration.