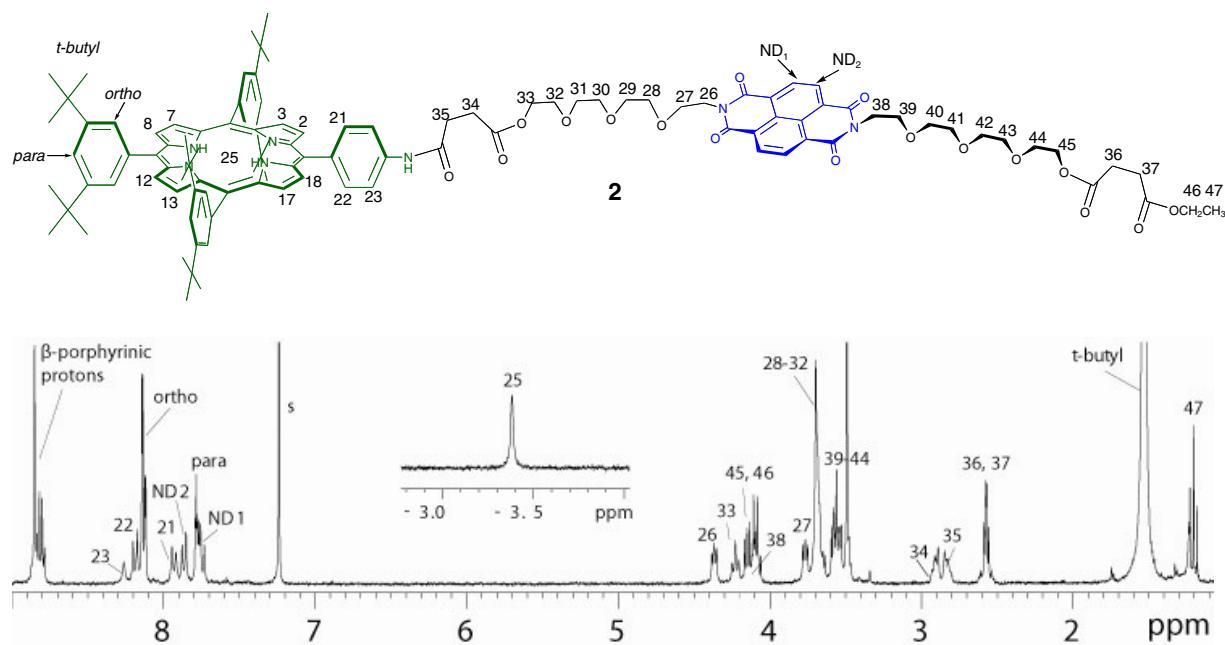


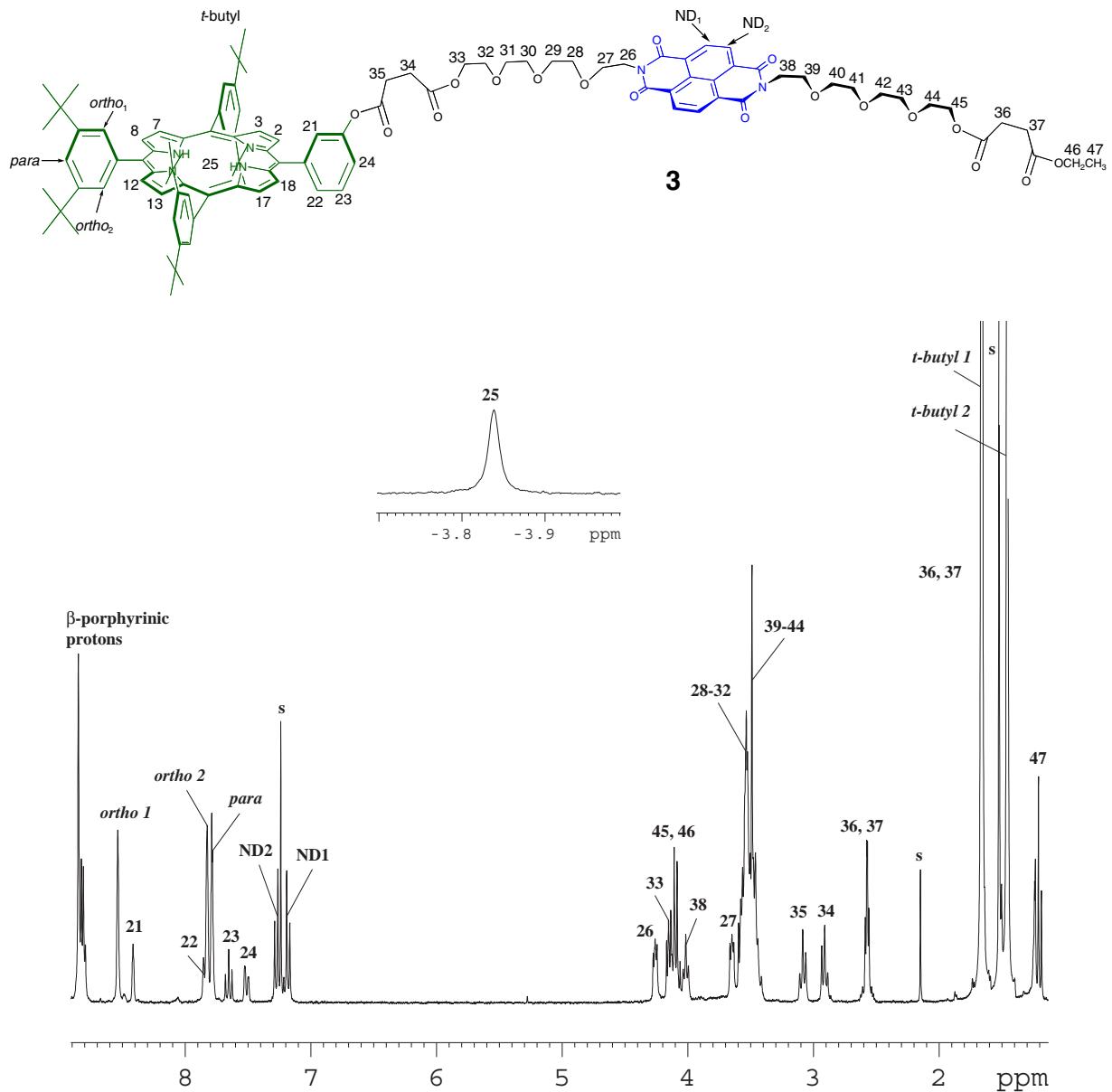
## Porphyrin-naphthodiimide interactions as a structural motif in foldamers and supramolecular assemblies

Zulkifli Merican, Ken D. Johnstone and Maxwell J. Gunter

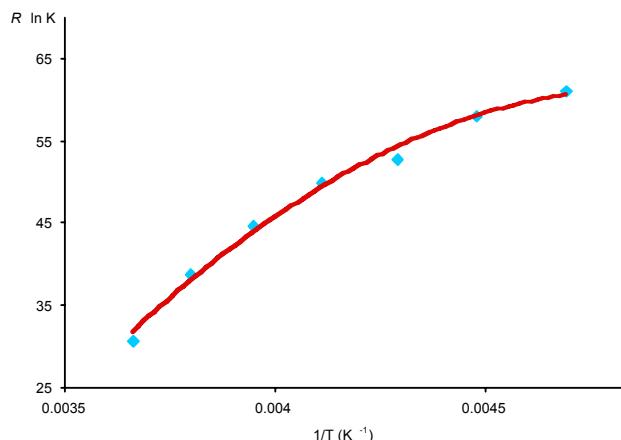
### Electronic Supplementary Information



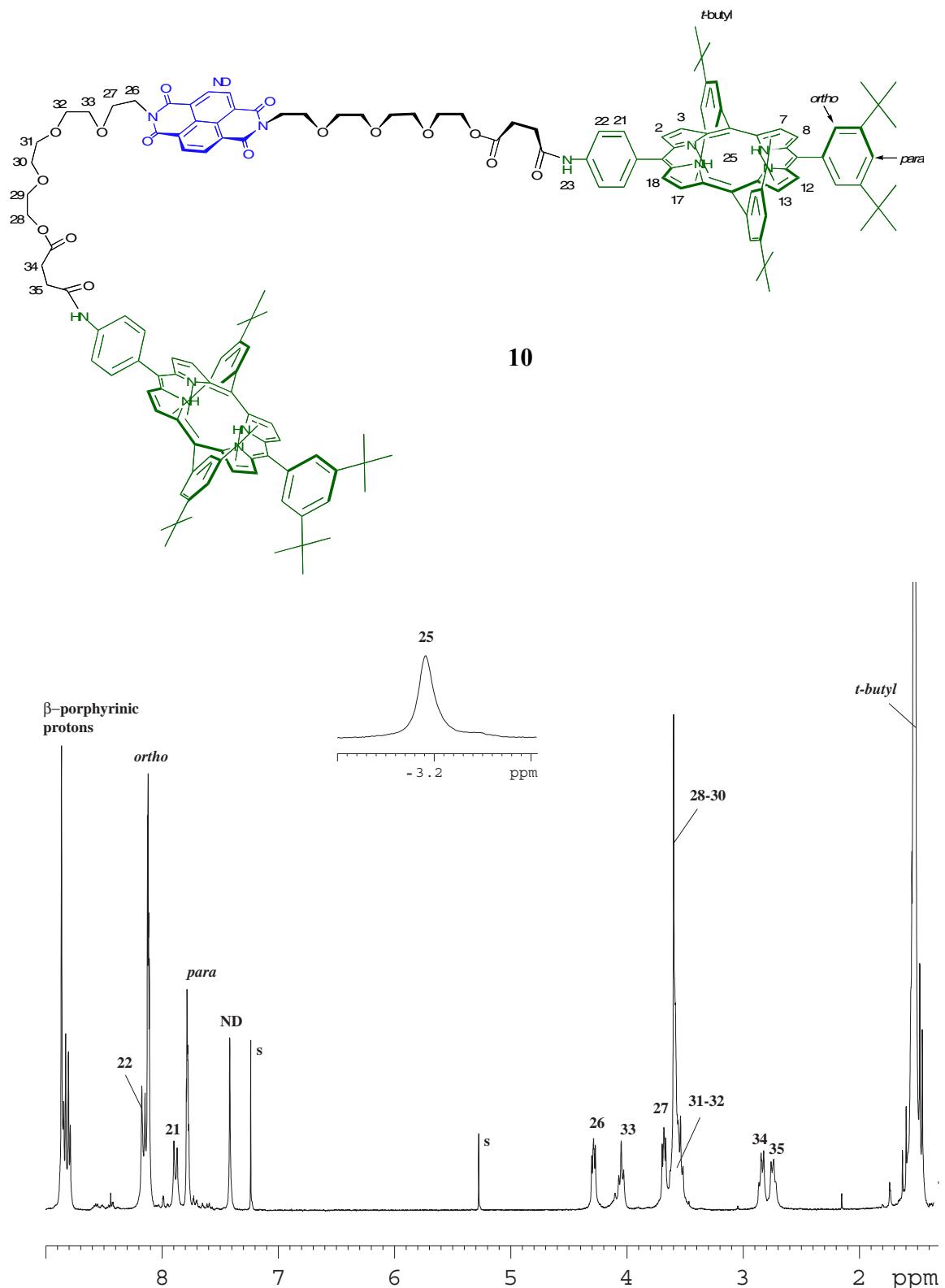
**Figure S1** <sup>1</sup>H NMR spectrum and numbering scheme for **2**.



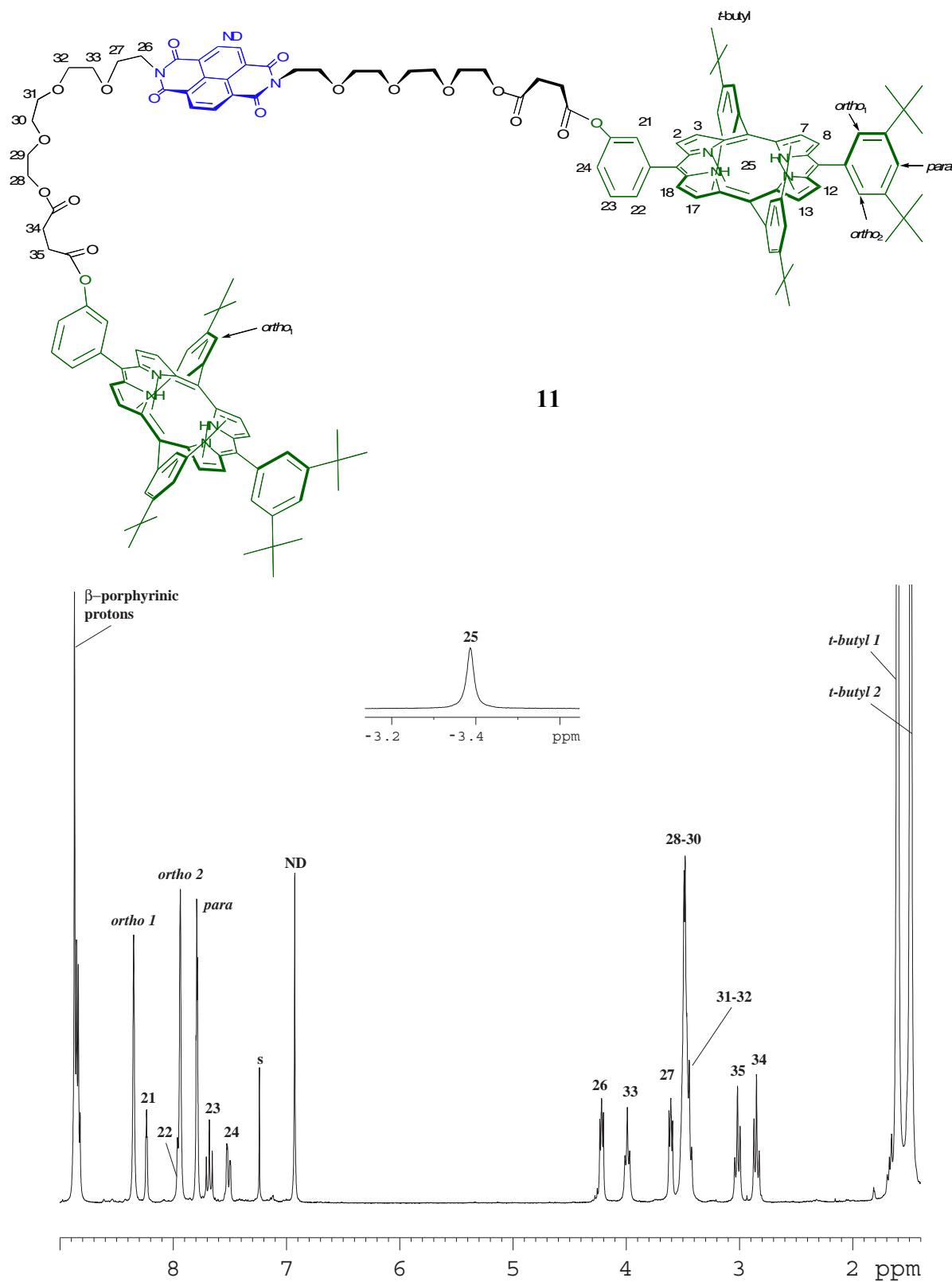
**Figure S2**  $^1\text{H}$  NMR spectrum and numbering scheme for **3**.



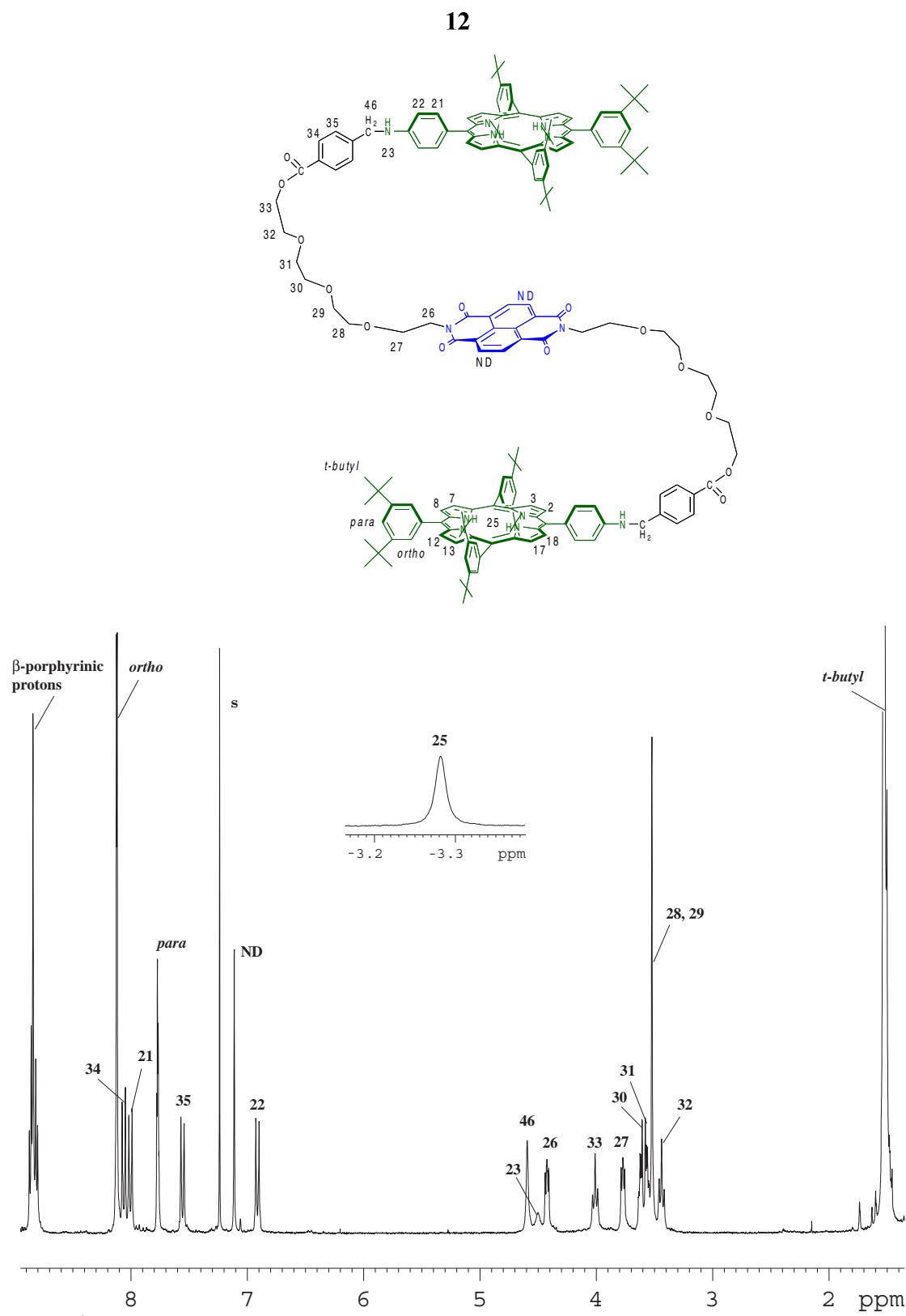
**Figure S3** van't Hoff plot for the [DN38C10.3] system resulting from an equimolar admixture of DN38C10 and **3** in  $\text{CDCl}_3$ . The points are the measured data and the solid line is a guide to eye.



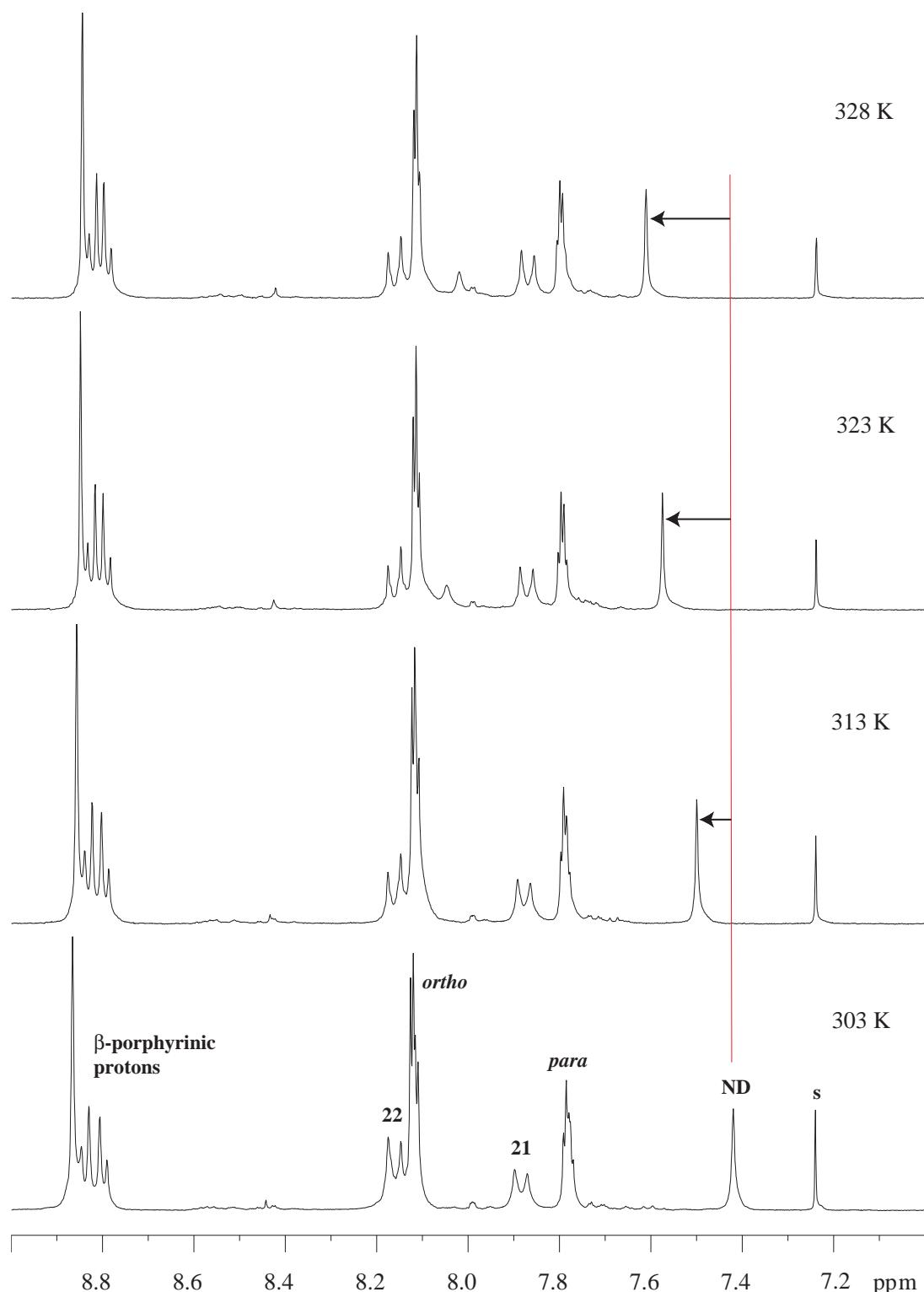
**Figure S4**  $^1\text{H}$  NMR spectrum and numbering scheme for **10**.



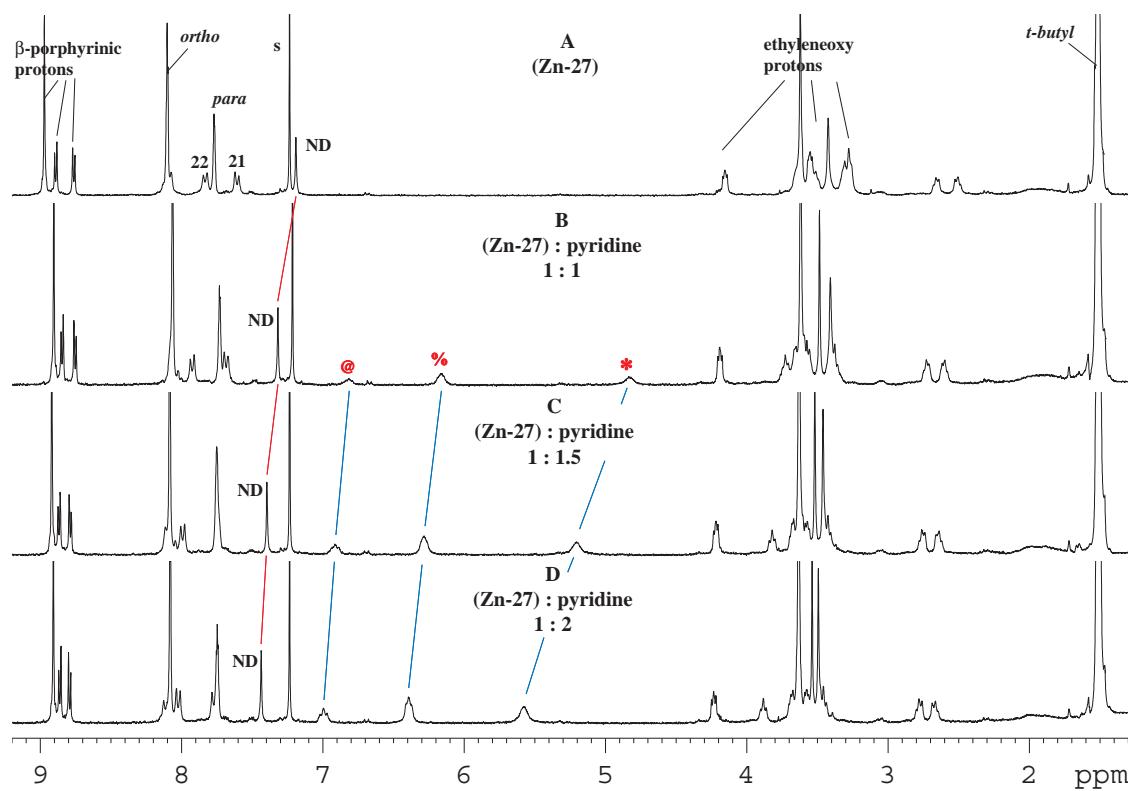
**Figure S5** <sup>1</sup>H NMR spectrum and numbering scheme for **11**



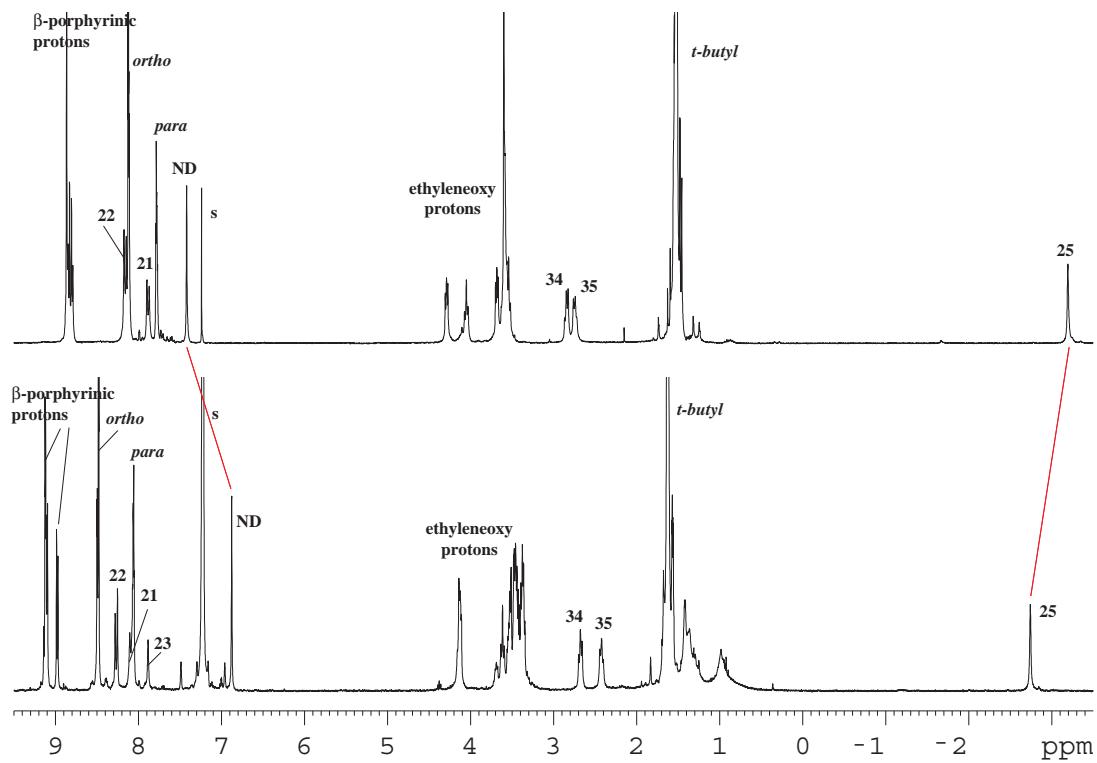
**Figure S6** <sup>1</sup>H NMR spectrum and numbering scheme for **12**.



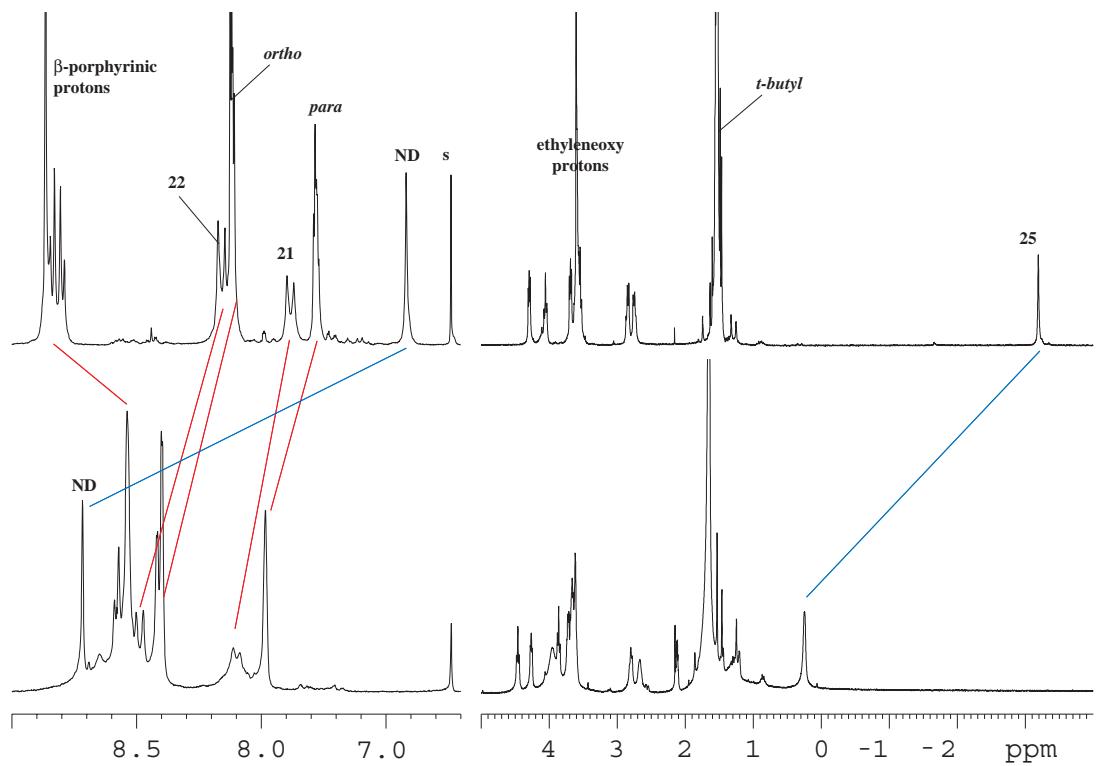
**Figure S7** Variable high temperature  $^1\text{H}$  NMR experiments for **10**. As the temperature is increased, the naphthalene protons ND are shifted downfield. Selected peaks are identified by the non-systematic numbering shown above (s is CDCl<sub>3</sub>).



**Figure S8** <sup>1</sup>H NMR spectra (CDCl<sub>3</sub>) showing gradual downfield shifts of the diimide protons upon binding of pyridine (py) to **Zn10**.



**Figure S9** <sup>1</sup>H NMR spectra of **10** in:  $\text{CDCl}_3$  (top) and  $d_6$ -benzene (bottom).



**Figure S10** <sup>1</sup>H NMR spectra ( $\text{CDCl}_3$ ) showing the shift of naphthodiimide protons ND to about its original frequency upon protonation (bottom), relative to that of the free-base derivative **10** (top).

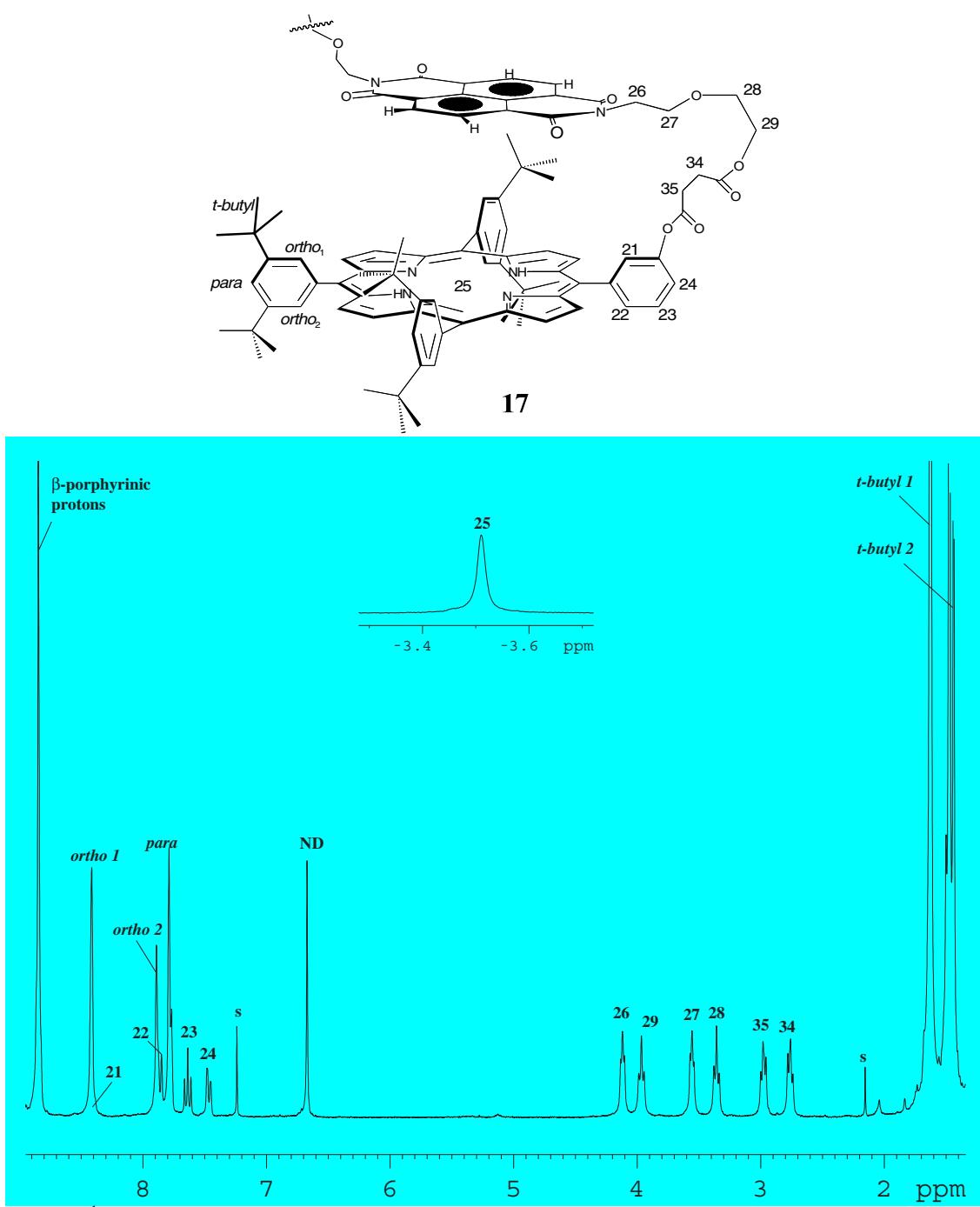
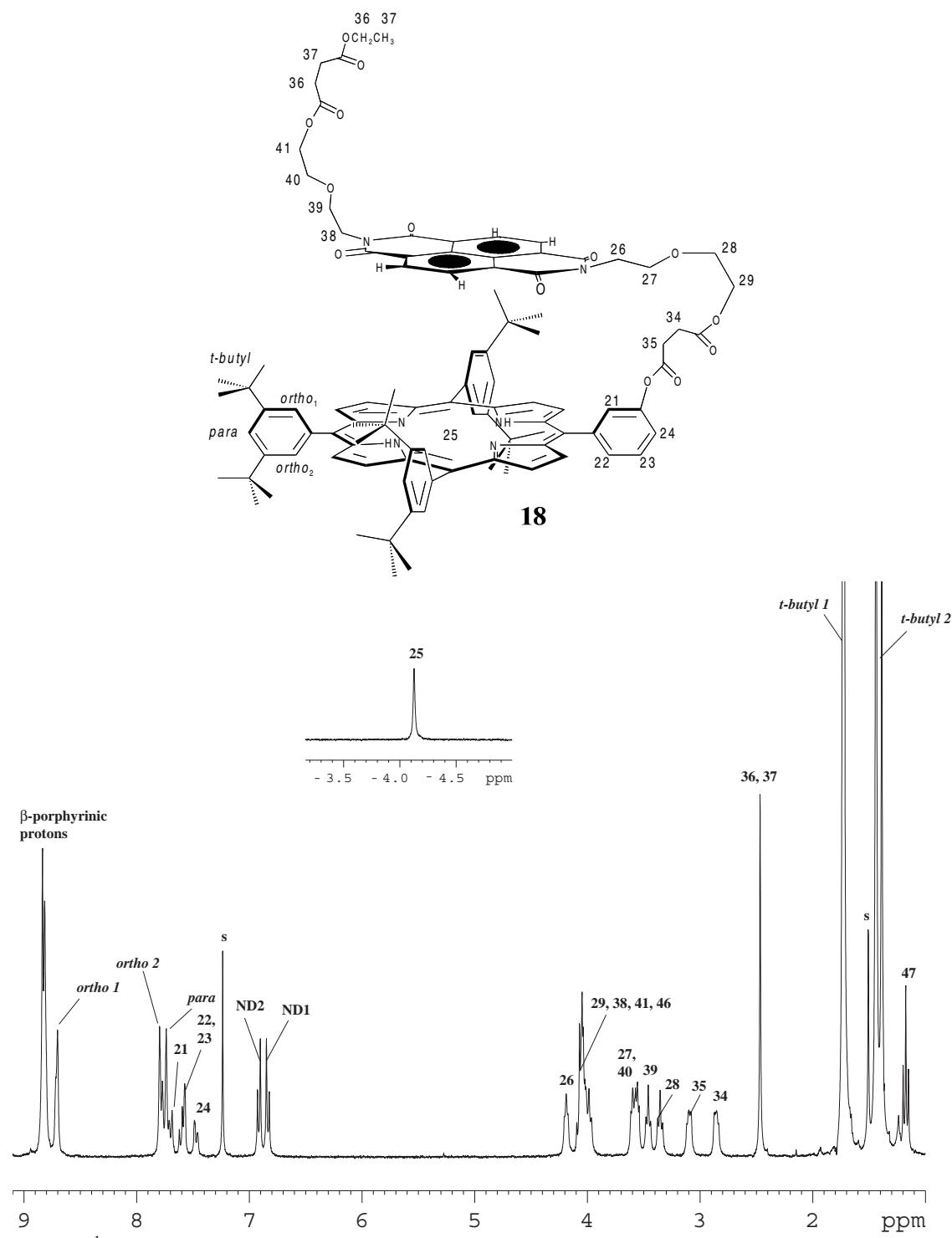


Figure S11 <sup>1</sup>H NMR spectrum and numbering scheme for 17.



**Figure S12** <sup>1</sup>H NMR spectrum and numbering scheme for **18**.