## **Electronic Supplementary Information**

## Alkyl substituted 4-pyrrolidinopyridinium salts encapsulated in the cavity of cucurbit[10]uril

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Figure S1. <sup>1</sup>H and <sup>13</sup>C NMR spectra of g1 in  $D_2O$  (400 MHz).



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**Figure S7**. Interaction of g3 and Q[10] (20 °C): <sup>1</sup>H NMR spectra (400 MHz, D<sub>2</sub>O) of g3 (*ca.* 2 mM) in the absence of Q[10] (A), in the presence of 0.101 equiv. of Q[10] (B), in the presence of 0.199 equiv. of Q[10] (C), in the presence of 0.322 equiv. of Q[10] (D), in the presence of 0.533 equiv. of Q[10] (E), in the presence of 0.890 equiv. of Q[10] (F), in the presence of 1.005 equiv. of Q[10] (G), and in the presence of 1.206 equiv. of Q[10] (H).



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