Supplementary Materials

978.6080 100-980.6066 976.6104 % 974.6119 982.6037 972.6160 983.6037 948.5980 1094.5757 1180.5636 776.6673 794.6624 914.7236 1046.5963 697.1403 772.6675 0 600 m/z 1150 700 750 850 900 950 650 800 1000 1050 1100

Figure S1. High resolution MS spectra of compound 4.

Figure S2. Proton NMR spectrum of **2** (black annotations from Scheme 1) and **4** (blue annotations) in methanol- d_4 with Wet suppression on the water resonance.



Figure S3. Proton decoupled Carbon NMR spectrum of 2 (black annotations from Scheme 1) and 4 (blue annotations).



Figure S4. Superimposed gradient selected HSQC and HMBC spectra of 2 (black annotations from Scheme 1) and 4 (blue annotations).



Figure S5. Superimposed gradient selected HSQC and HMBC spectra zooming in on the overlapped ${}^{1}J_{CH}$ (blue) and ${}^{3}J_{CH}$ (black) correlations of the two symmetric methylenes at position 6 for compound 4, distinctive for the dimerization.

