Electronic Supplementary Information for:

**Star-shaped and star-block polymers with porphyrin core: from LCST-UCST thermoresponsive transition to tunable self-assembly behaviour and fluorescence performance**

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Fig. S1 Transmittance curve of THPP(-PDMAEMA-b-PEG)\textsubscript{4} from 25 °C to 90 °C.

Fig. S2 Transmittance curves of (a) THPP(-PDMAEMA-Br)\textsubscript{4} and THPP(-PDMAEMA-b-PEG)\textsubscript{4},
(b) THPP(-PDMAPS-Br)\textsubscript{4} and THPP(-PDMAPS-b-PEG)\textsubscript{4} during cooling process.
Fig. S3 Temperature dependence of hydrodynamic radius ($R_h$) for THPP(-PDMAEMA-$b$-PEG)$_4$. 