Supporting Information for

Intramolecular Cyclization of Long-chain Hyperbranched Polymers

(HyperMacs) from A₂+Bₙ Step-wise Polymerization

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Figure S1 Schematic synthesis of $A_2\text{-}C_n$ ($n=2, 4, 8$), $A_2\text{-}\text{PEG}$ and $B_3$ monomers
Figure S2 $^1$H NMR of A$_2$-C$_2$, A$_2$-C$_4$, A$_2$-C$_8$ and A$_2$-PEG monomers
Figure S3 $^1$H NMR of B$_3$ monomer
**Figure S4** SEC-MALLS curve of HyperMacs-PEG-polytriazoles and PEG-alkynyl at a flow rate of 0.5 mL min\(^{-1}\)
Figure S5 Component units and correspondingly characteristic atoms in HyperMacs (polyesters) from A₂+B₃ step-wise polymerization
Figure S6 $^1$H NMR spectra of HyperMacs-C$_4$ and C$_8$ (polyesters) with different chain length backbones in CDCl$_3$