Supplementary Information

Significance of secondary structure in nanostructure formation and thermosensitivity of polypeptide block copolymer

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Fig. S1. Gel permeation chromatograms of the mPEG-L-PA and mPEG-DL-PA.
**Fig. S2.** CD spectra of mPEG-DL-PA as a function of polymer concentration in water at room temperature. CD spectra enlarged at low concentrations were inserted.
Fig S3. The FTIR spectra at 0.1 wt. % mPEG-L-PA in D$_2$O were subtracted from 0.3, 0.5 and 0.7 wt. % to see the spectral change as a function of polymer concentration.
Fig. S4. Comparison of $^1$H-NMR spectra of mPEG-$L$-PA (L) and mPEG-$DL$-PA (DL) in D$_2$O and CF$_3$COOD. The polymer concentration was about 8.0 wt. % in each solvent.
**Fig. S5.** Circular dichroism spectra of mPEG-\textit{L}-PA (L) and mPEG-\textit{DL}-PA (DL) as a function of temperature (0.04 wt. % in water).