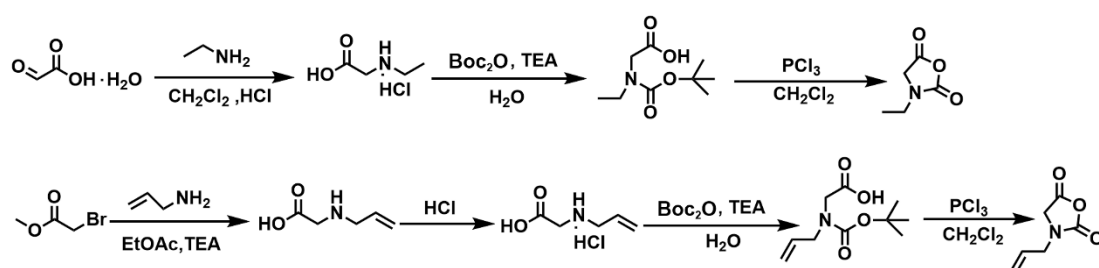


Self-Assembly Study of Block Copolypeptoids in Response to pH and Temperature Stimulation

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Scheme S1. Synthetic pathways of Al-NCA and Et-NCA monomers.

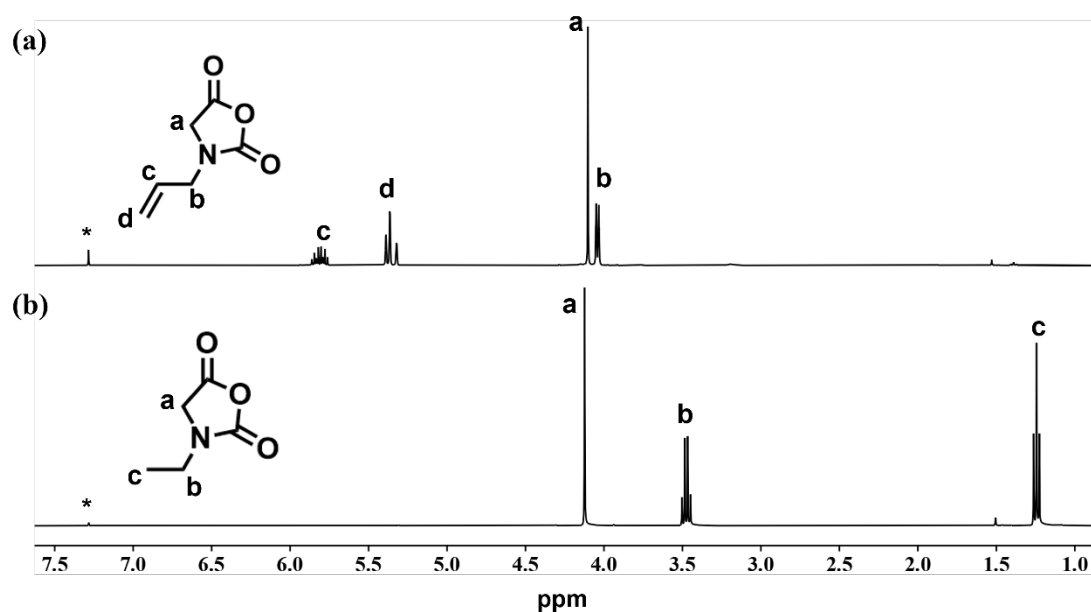


Figure S1. ^1H NMR spectra of (a) Al-NCA and (b) Et-NCA in CDCl_3 (* indicates solvents).

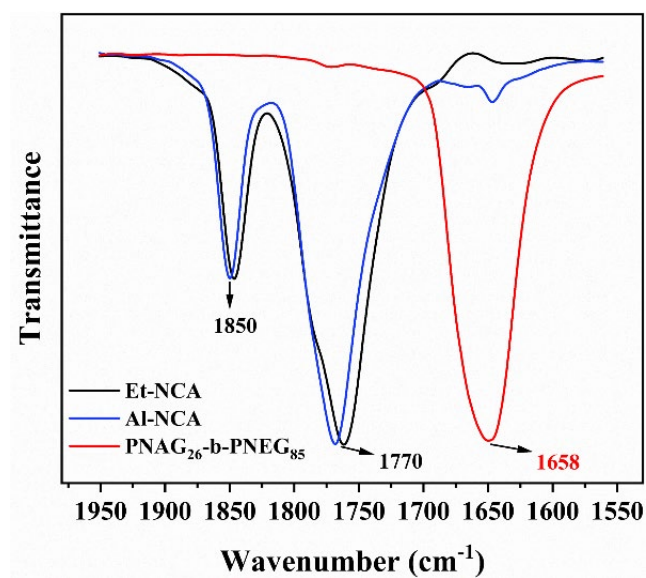


Figure S2. FTIR spectra of Et-NCA, Al-NCA and PNAG₂₆-b-PNEG₈₅.

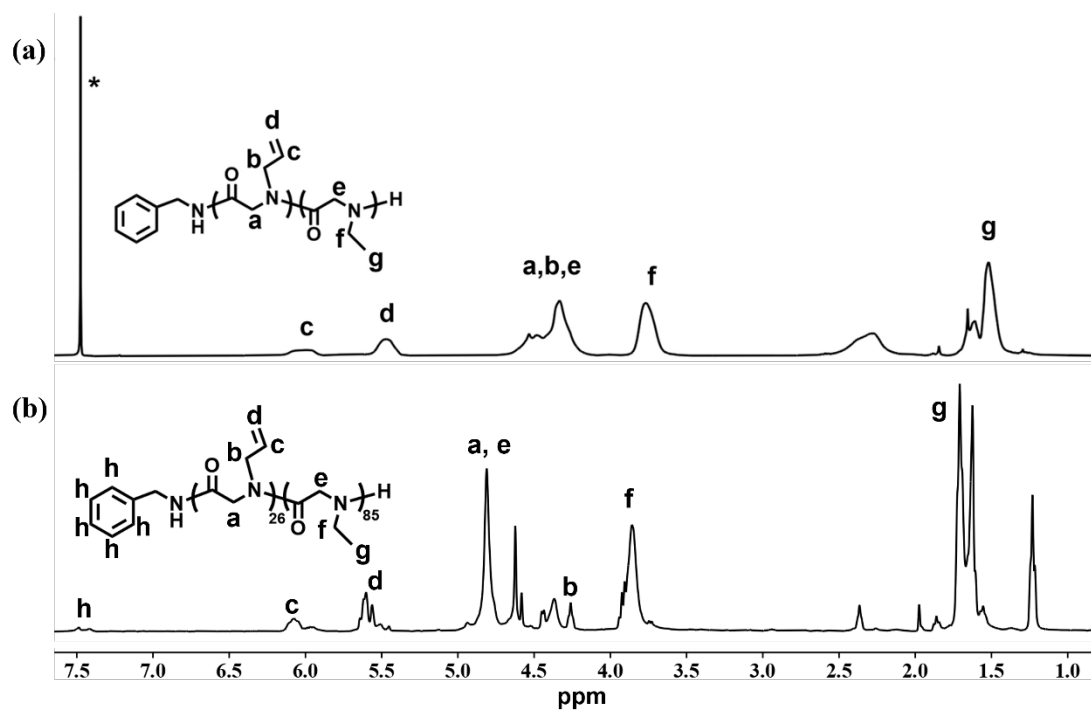


Figure S3. ¹H NMR spectra of PNAG₂₆-b-PNEG₈₅ in (a) CDCl₃ and (b) TFA-d (* indicates solvents).

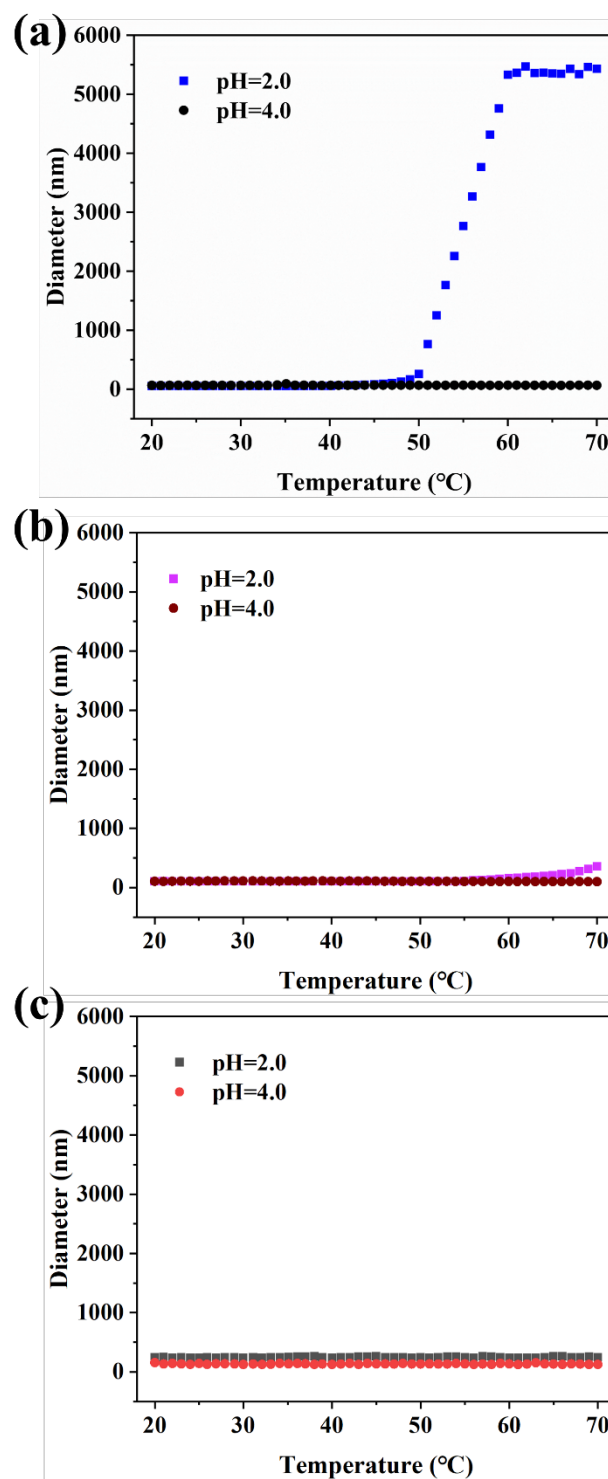


Figure S4 Plots of diameter as a function of temperature for aqueous solutions (2 mg/mL) of (a) (PNAG₁₃-b-PNPEG₇₇)-COOH, (b) (PNAG₁₂-b-NPEG₉₂)-COOH and (c) (PNAG₁₅-b-NEG₁₃₅)-COOH at pH=2.0 and 4.0

Table S1. The cloud point temperatures of (PNAG₂₆-b-PNEG₈₅)-COOH tested by UV-Vis under different pH values and concentrations

Tcp (°C)	pH	Concentration (mg/mL)
45	4.0	2.0
41	3.0	2.0
37	2.0	2.0
38	2.0	1.0
34	2.0	5.0