

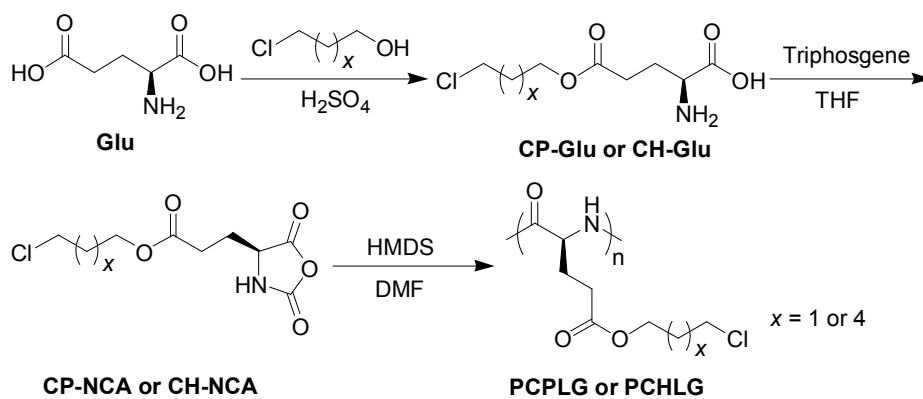
Supporting Information

**Preparation and Thermoresponsive Properties of Helical Polypeptides Bearing
Pyridinium Salts**

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Scheme S1. The synthetic route of poly(γ -3-propyl-L-glutamate) and poly(γ -6-hexyl-L-glutamate).

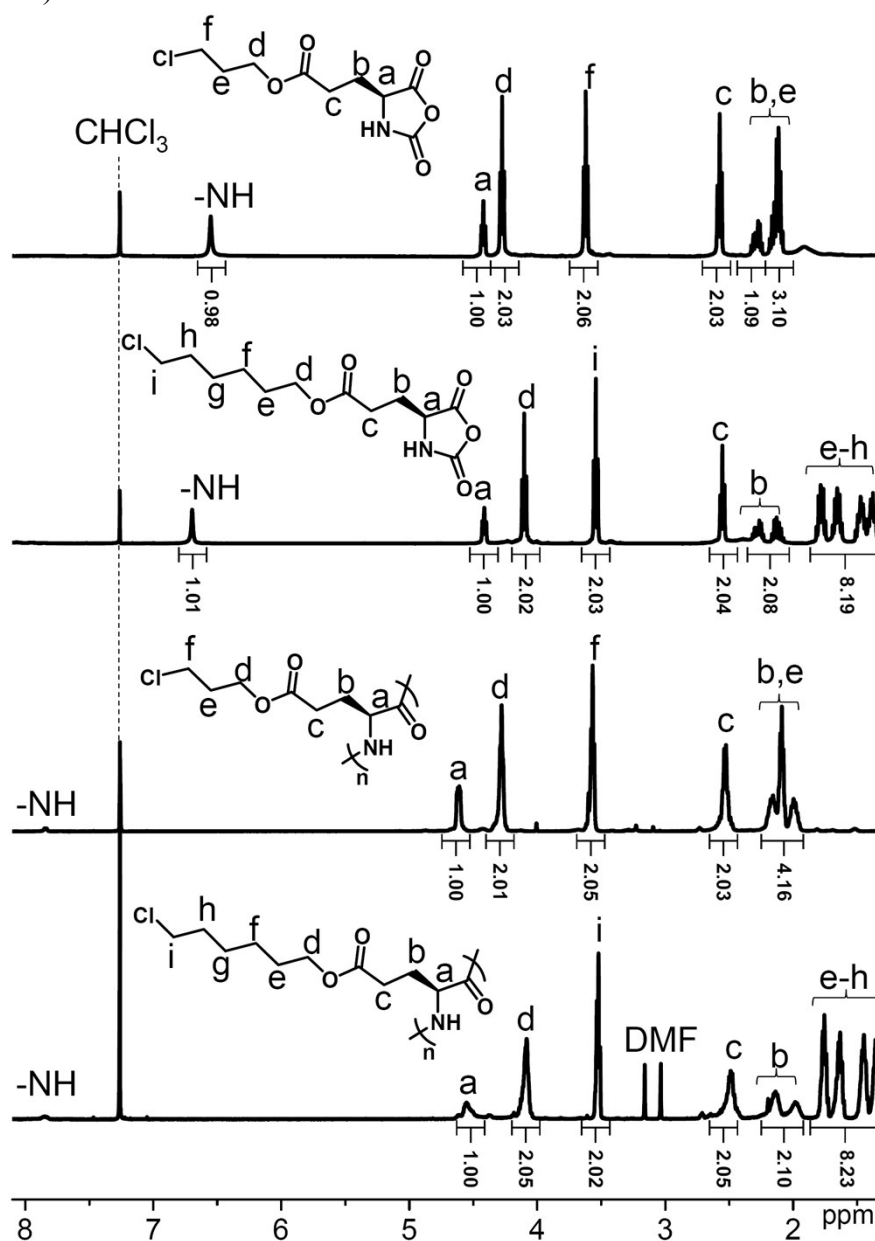


Figure S1. ¹H NMR spectra of CP-NCA and CH-NCA in CDCl₃, PCPLG and PCHLG in CDCl₃/TFA-*d* (V/V = 80/20).

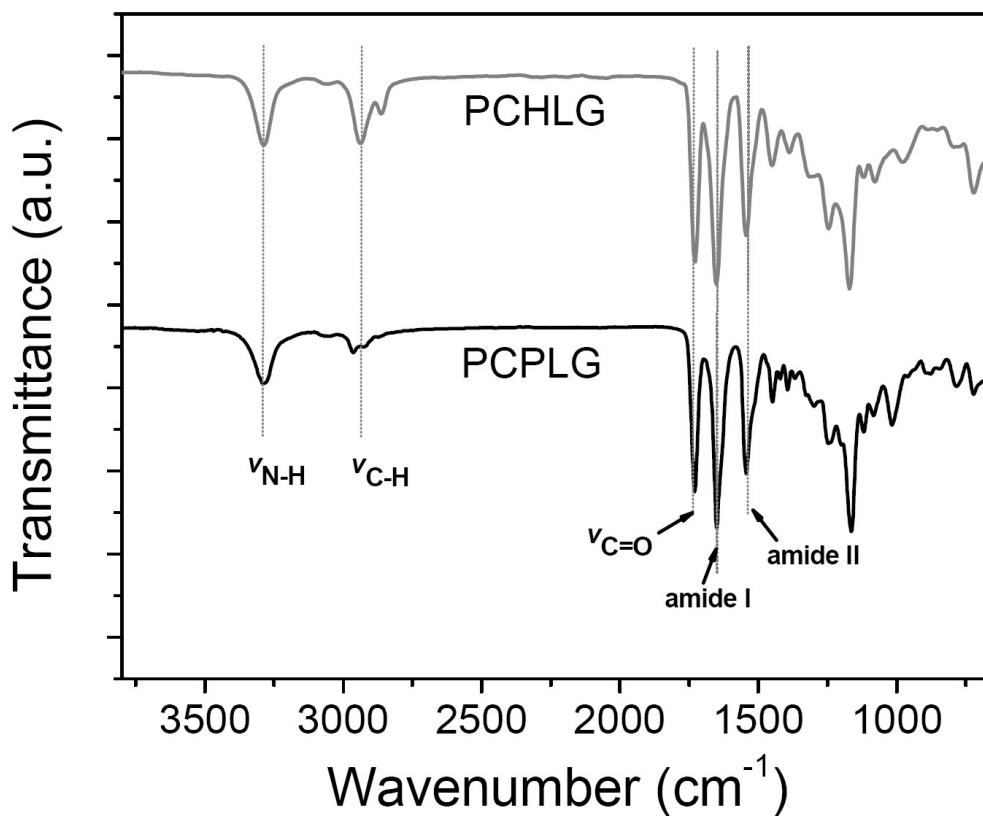


Figure S2. FTIR spectra of PCPLG and PCHLG.

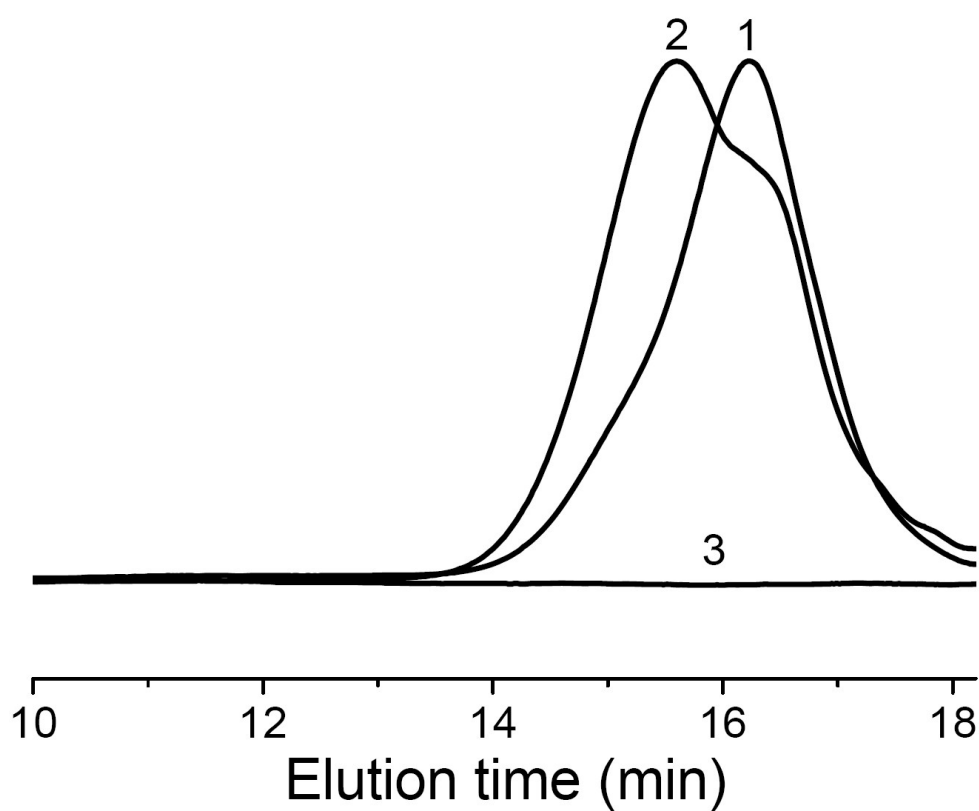


Figure S3. GPC chromatogram of PCPLG (curve 1: $M_n = 5570$, PDI = 1.32, DP = 27), PCHLG (curve 2: $M_n = 6430$, PDI = 1.57, DP = 26), and **P15** (curve 3).