Supporting Information

Preparation and Thermoresponsive Properties of Helical Polypeptides Bearing Pyridinium Salts

Yan Wu, Xi Wang, Ying Ling* and Haoyu Tang*

Key Laboratory of Polymeric Materials and Application Technology of Hunan Province, Key Laboratory of Advanced Functional Polymer Materials of Colleges and Universities of Hunan Province, College of Chemistry, Xiangtan University, Xiangtan, Hunan, 411105, China

Correspondence to: Haoyu Tang (Email: htang@xtu.edu.cn) and Ying Ling (E-mail: yingling0202@gmail.com)
Scheme S1. The synthetic route of poly(γ-3-propyl-L-glutamate) and poly(γ-6-hexyl-L-glutamate).

Figure S1. $^1$H NMR spectra of CP-NCA and CH-NCA in CDCl$_3$, PCPLG and PCHLG in CDCl$_3$/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).