

Supporting Information

**Induction of Supramolecular Chirality in Self-Assembled Nanofibers Triggered by Environmental Change**

Zhegang Huang, Seong-Kyun Kang, and Myongsoo Lee\*

Center for Bio-responsive Assembly and Department of Chemistry, Seoul National University, Seoul 151-747, Korea.

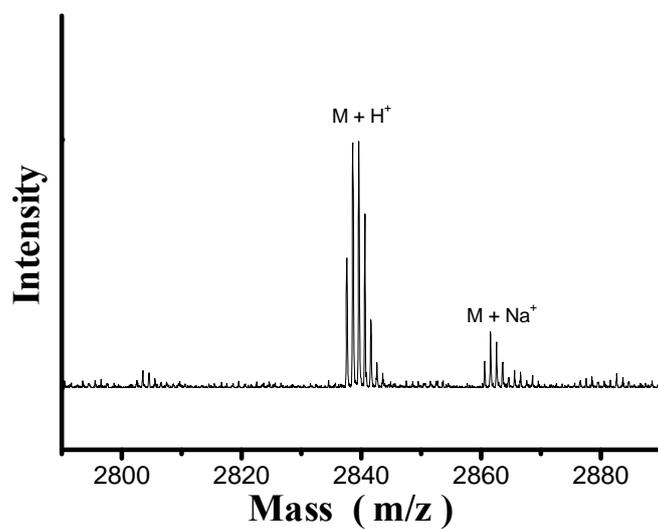


Fig. S1 MALDI-TOF mass spectra of molecule 1.

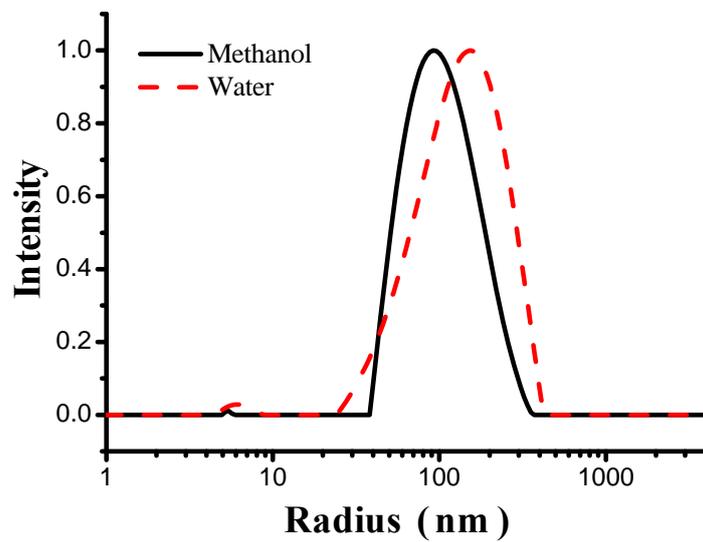
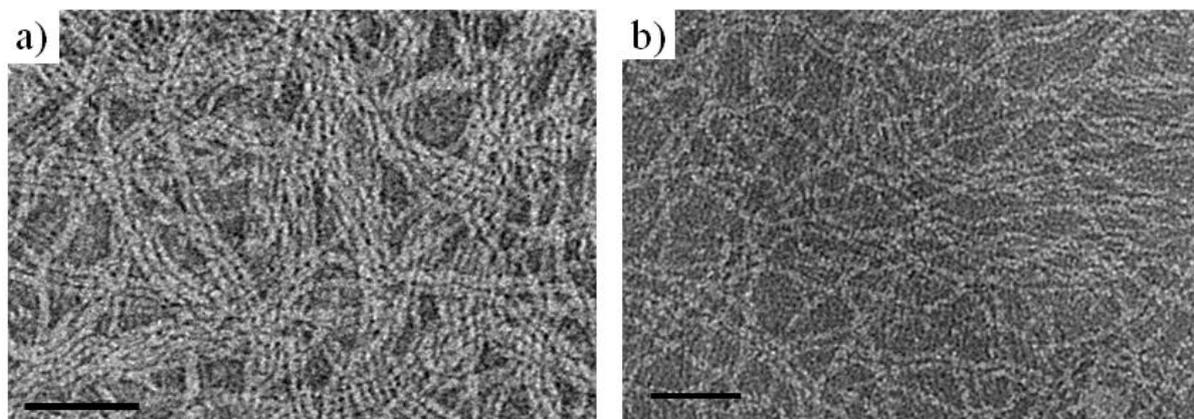
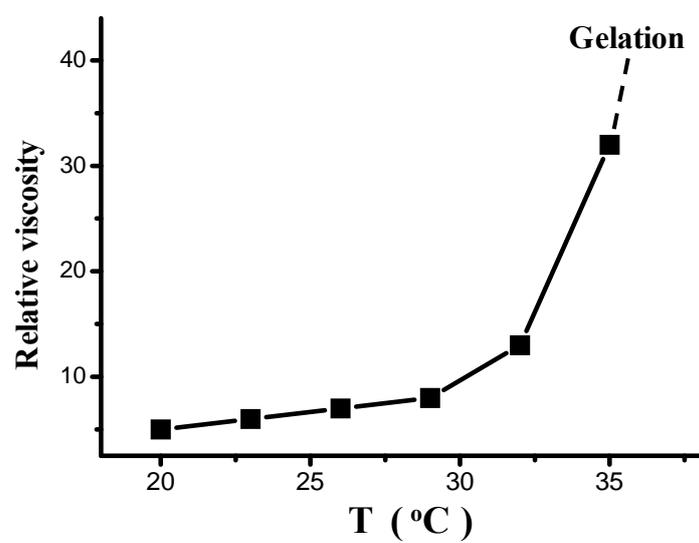


Fig. S2 Size distribution graphs of 1 in methanol ( $4 \times 10^{-4}$  M, black) and aqueous solution ( $4 \times 10^{-5}$  M, red).



**Fig. S3** TEM images of **1** a) in Methanol-Water (3 : 2) solution ( $4 \times 10^{-4}$  M, scale bars: 50 nm). b) in aqueous solution ( $4 \times 10^{-5}$  M, scale bars: 100 nm).



**Fig. S4** Relative viscosities of **1** in aqueous solution ( $1.5 \times 10^{-3}$  M) with increasing temperature.

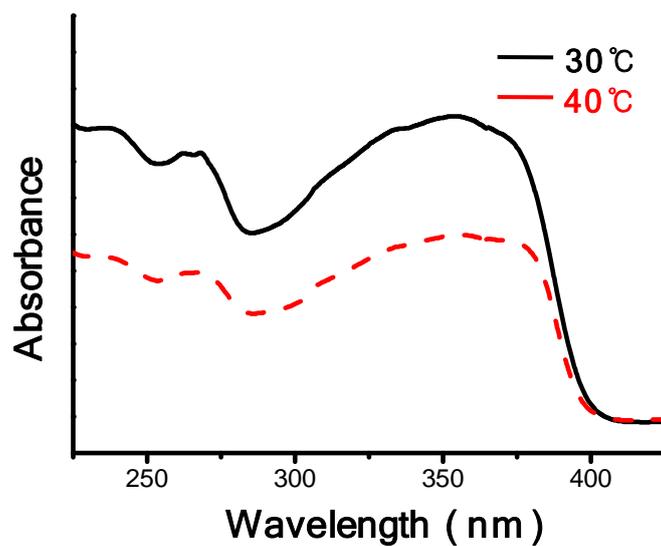


Fig. S5 Absorption spectra of **1** in aqueous solution ( $1 \times 10^{-5}$  M) with increasing temperature.

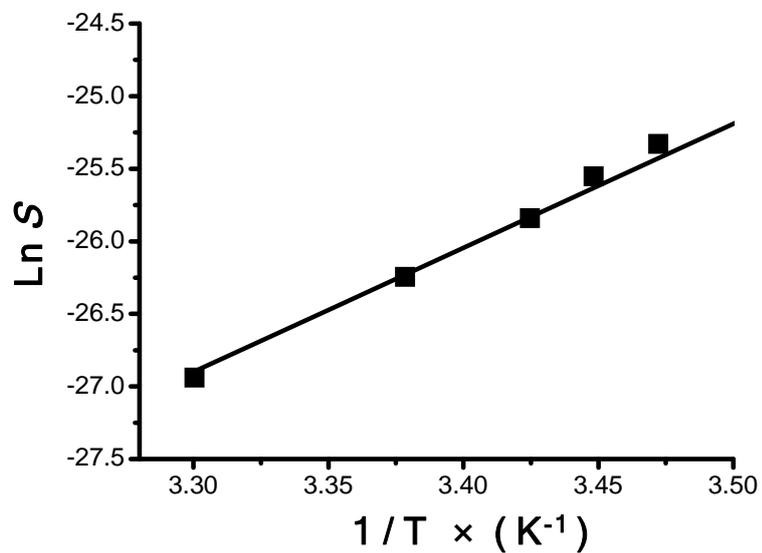


Fig. S6 Plot of  $\ln S$  ( $S$  = solubility, the concentration of gelator species in solution) against the transition temperature from Sol to Gel for **1** in aqueous solution.

	$\Delta H^\circ$	$\Delta S^\circ$
<b>1</b>	71, (KJ mol <sup>-1</sup> )	458, (J mol <sup>-1</sup> K <sup>-1</sup> )

**Table S1** Thermodynamic parameters for crosslinking process based on the van't Hoff Plots.