

Supporting Information

Enzyme-instructed self-assembly of the hydrogelators consisting of nucleobase, amino acids, and saccharide

Dan Yuan^a, Rong Zhou^a, Junfeng Shi^a, Xuewen Du^a, Xinming Li^a, and Bing Xu^{*a}

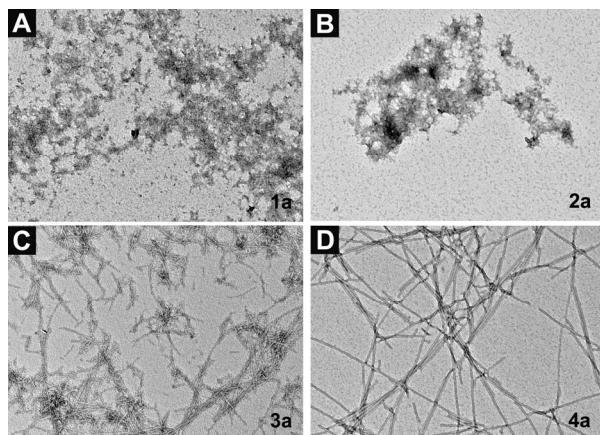


Fig. S1. Transmission electron micrograph (TEM) images of solution (A) 1a, (B) 2a, (C) 3a, (D) 4a shown in Fig. 1. They all dissolve in PBS buffer. 1a, 2a, and 4a are at the concentration of 1.0 wt %; 3a is at the concentration of 0.5 wt %. Scale bar = 100 nm.

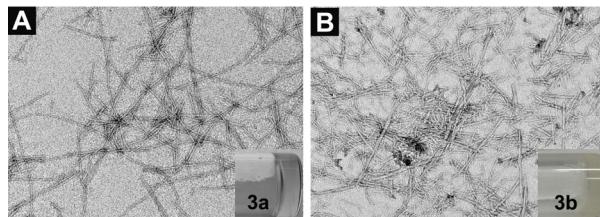


Fig. S2. TEM images of 3a and 3b at the concentration of 1 wt% in PBS buffer. Inserts are the corresponding optical images. Scale bar = 100 nm.

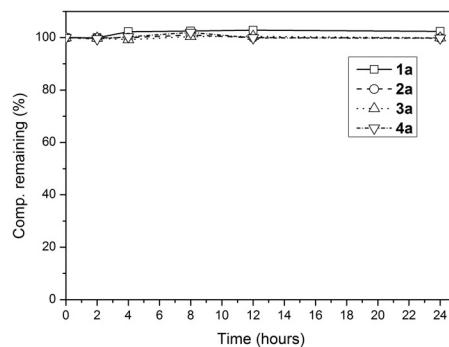


Fig. S3. Digestion curves of precursors 1a-4a (0.02wt%) by proteinase K (3.2 U/mL) in 10 mM HEPES buffer.

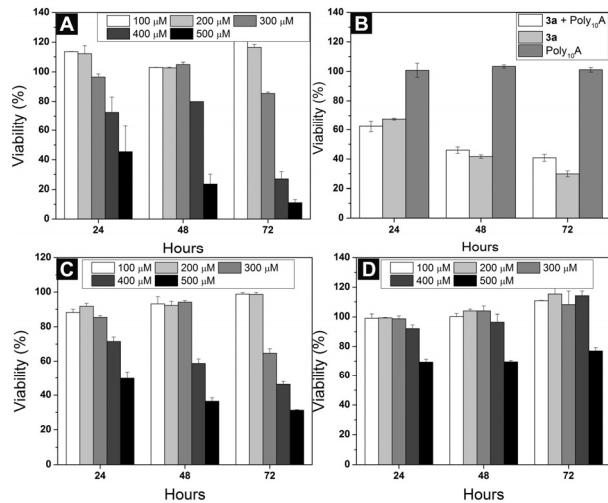


Fig. S4. Cell viability test of (A) **3a**, (B) **3a** at the concentration of 500 μM with and without Poly₁₀A (50 μM), (C) **3b**, (D) **4b** against HeLa cells for 72 hours.

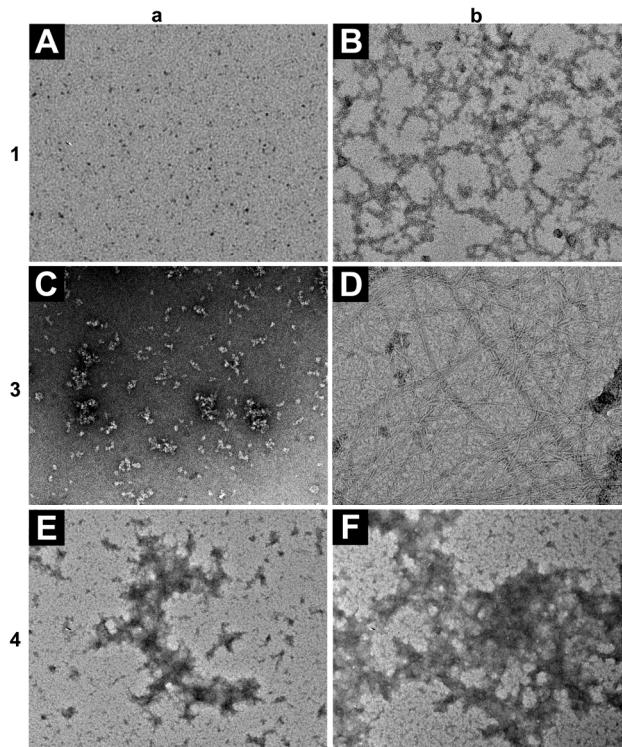


Fig. S5. TEM images of the solutions of precursors before and after adding ALP (1.0 U/mL) at the concentration of 500 μM in PBS buffer (A) **1a**, (B) **1b**, (C) **3a**, (D) **3b**, (E) **4a**, (F) **4b**. Scale bar = 100 nm.