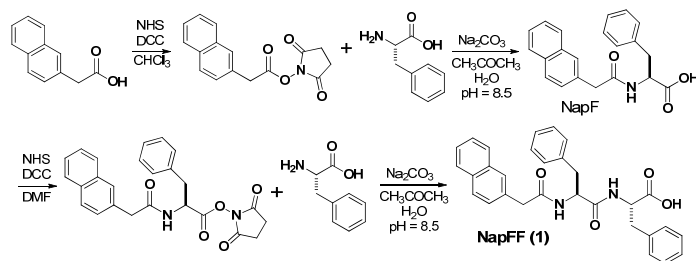


Versatile Small Molecule Motifs for Self-assembly in Water and Formation of Biofunctional Supramolecular Hydrogels

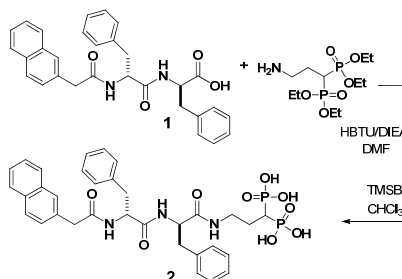
Ye Zhang, Yi Kuang, Yuan Gao, Bing Xu*

Supporting information

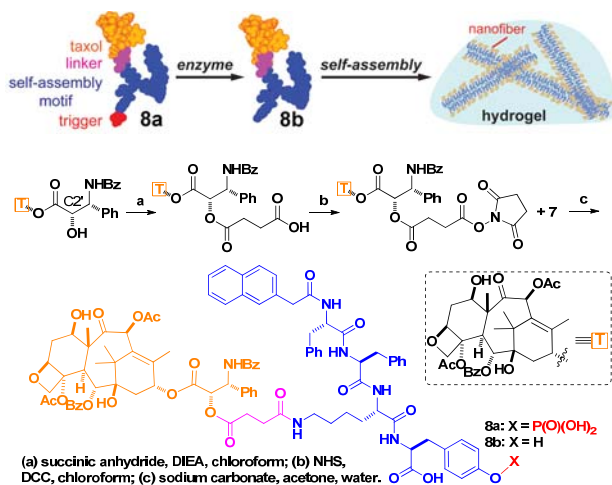
Scheme S1. The synthetic route of **1**.



Scheme S2. The synthetic route of **2**.



Scheme S3. Synthesis of the conjugate of NapFF and taxol.



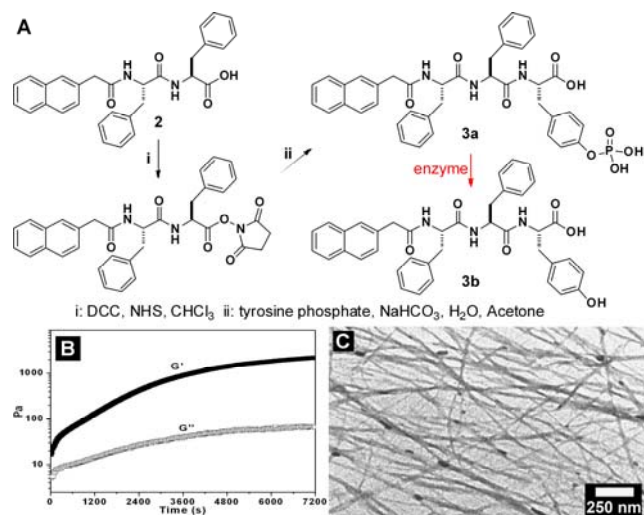


Figure S1. (A) The synthesis of **3a** and its enzymatic conversion. (B) dynamic time sweep of the solution containing 0.5 wt% (6.91 mM) of **3a** at pH 4.8 and 10 μL of acid phosphatase (5.88 U/mL) at the strain of 1.0% and the frequency of 2.0 rad/s. (C) TEM of the hydrogel made by acid phosphatase to convert **3a** to **3b**.

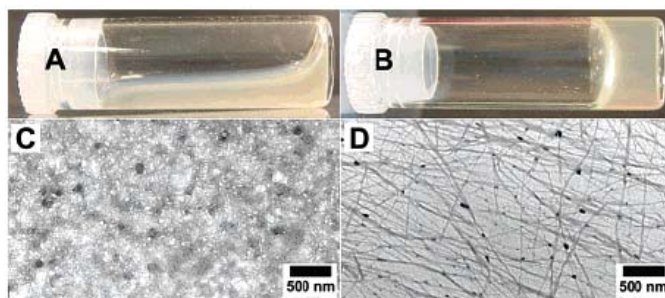


Figure S2. The optical and the TEM images of viscous solution of **5a** (A, C) and the hydrogel formed by **5b** (B, D). Adapted with permission from ref. 20. Copyright ACS 2007.

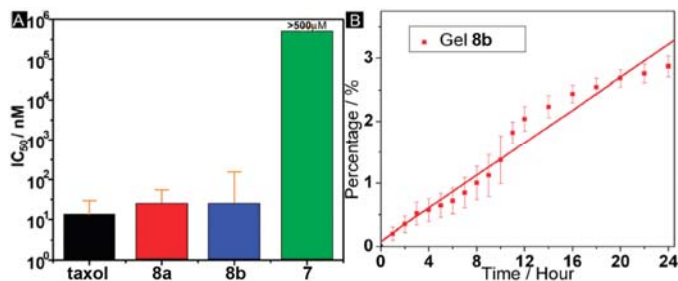


Figure S3. (A) Cytotoxicity (y-axis in log10 scale) of taxol (**1**), **8a**, **8b**, and **7** after incubated with HeLa cells for 48 h and (B) accumulative drug release profile of taxol gels.

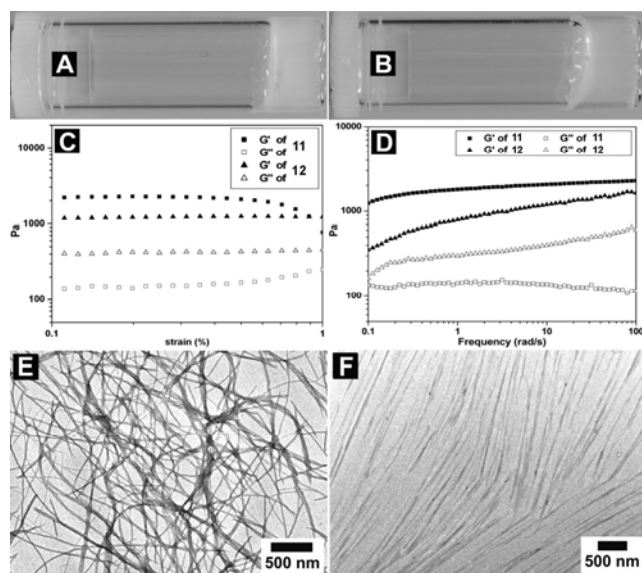


Figure S4. Optical images of (A) the hydrogel of **11** and (B) the hydrogel of **12**, (C) strain and (D) frequency dependence of dynamic storage moduli (G') and loss moduli (G'') of the hydrogels, TEM images of (E) the hydrogel of **11** and (F) the hydrogel of **12**. Adapted with permission from ref.26. Copyright RSC 2007.