

Supporting Information

Self-Assembly of Elastin-Mimetic Double Hydrophobic Polypeptides

Duc H. T. Le,[†] Ryo Hanamura,[†] Dieu-Huong Pham,[†] Masaru Kato,[‡] David A. Tirrell,[§]

Tatsuya Okubo[†] and Aya Sugawara-Narutaki^{†}*

[†]Department of Chemical System Engineering, The University of Tokyo, 7-3-1, Hongo,

Bunkyo-ku, Tokyo 113-8656, Japan

[‡]Graduate School of Pharmaceutical Sciences and Global COE Program, The University of

Tokyo, 7-3-1, Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

[§]Division of Chemistry and Chemical Engineering, Joseph J. Jacobs Institute for Molecular

Engineering for Medicine, California Institute of Technology, Pasadena CA 91125, USA

Partial Reversibility of GPG Nanofibers

A suspension of **GPG** nanofibers (incubated at 45 °C, 7 days) was cooled to 16 °C and maintained for 1 h. An SEM image taken after lyophilization of the sample shows the coexistence of nanoparticles and some remaining nanofibers (Figure S1). This experiment demonstrated the partial reversibility of fiber formation upon cooling.

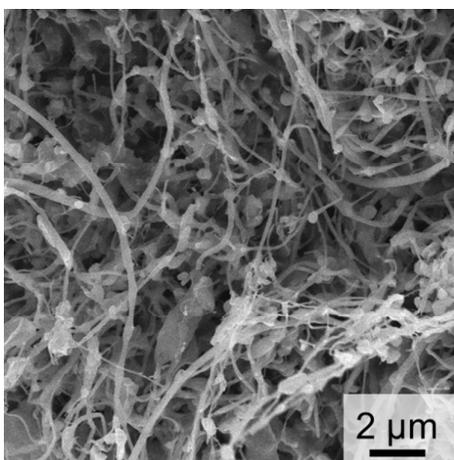


Figure S1. SEM image of a freeze-dried **GPG** sample assembled at 45°C for 7days and then cooled to 16°C for 1 h.