SUPPLEMANTARY INFORMATION

for

Local Delivery of Doxorubicin through Supramolecular Peptide Amphiphile Nanofiber

Gels

Goksu Cinar¹, Ayse Ozdemir¹, Seren Hamsici¹, Gokhan Gunay¹, Aykutlu Dana, Ayse B.

Tekinay^{1*} and Mustafa O. Guler^{1,*}



Figure S1. Liquid chromatograms and mass spectra of the synthesized PAs, a) E_3PA ; [M-H]⁻ (calculated)= 912.50, [M-H]⁻ (observed)= 912.48, (observed [M-2H]⁻² m/z = 455.73), b) K_3PA ; [M+H]⁺ (calculated)= 910.67, [M+H]⁺ (observed)= 910.68, (observed [M+2H]⁺² m/z = 455.84).



Figure S2. SEM images of the coassembled PA nanonetworks prepared using critical point dryer at different peptide concentrations.



Figure S3. a) Time sweep analysis of the 1% (w/v) coassembled PA gels injected through a syringe or directly mixed on the rheometer stage as a control, b) Equilibrium storage (G') and loss moduli (G") of the PA hydrogels.



Figure S4. Biodegradability of the 1% (w/v) coassembled E_3/K_3PA nanofiber gels via different proteases at pH 7.4.



Figure S5. Hankel transform of the photobleaching profiles of Dox encapsulated coassembled PA gels prepared at different concentrations.





Figure S6. Flow cytometry histograms of only Dox, Dox/PA, only PA and control groups at (a) 24 h and (b) 48 h.



Figure S7. Animal body weight change of the only Dox, only PA, Dox/PA and control (PBS injected) groups for 18 days.



Figure S8. Hematoxylin-eosin staining for the tissue morphology of the tumor, liver, kidney and spleen of mice treated with the only Dox, only PA, Dox/PA, control (PBS injected) and healthy controls at day 18 (all scale bars are $200 \ \mu m$).