Supporting Information

Preparation of Biodegradable Oligo(lactide)s-grafted Dextran Nanogels for Efficient Drug Delivery by Controlling Intracellular Traffic

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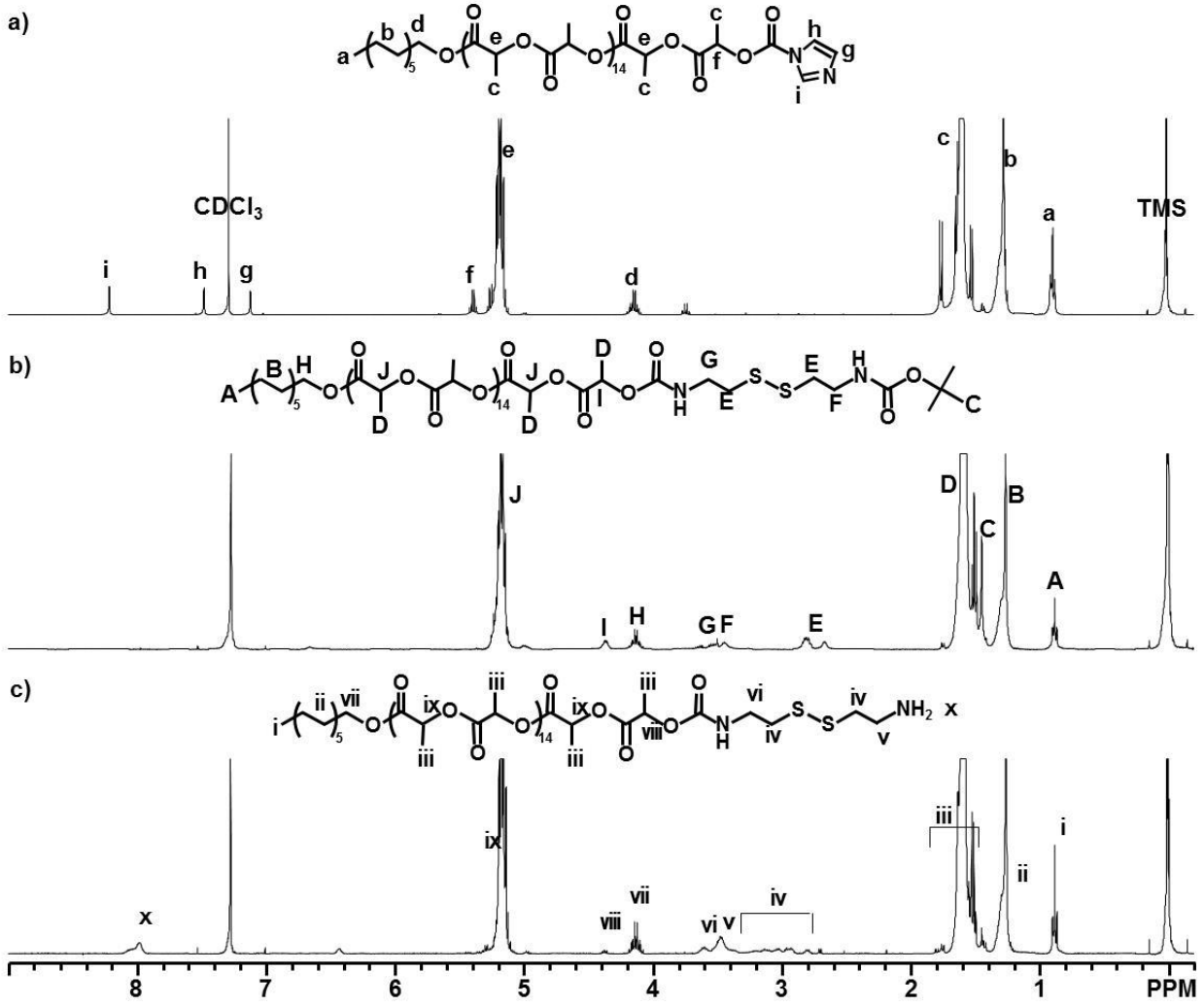
Figure S1. ^{1}H NMR spectra of a) activated OLA (CI-OLA), b) Boc-cystamine-OLA and c) OLA-SS-NH_2 in $CDCl_3$.

Figure S2. ^{1}H NMR spectrum for hydrolysis products of EI_4/Gal-Dex-*g*-SS-OLA in NaOD/D_2O. The alkyl group at the terminal of OLA was not observed because of insolubility in aqueous solution.

Figure S3. Size distributions of the Dex-*g*-OLA, Dex-*g*-SS-OLA and EI_4/Gal-Dex-*g*-SS-OLA nanogels in PB solution measured by DLS.

Figure S4. Plots of fluorescence intensity ratio for I_1 (373 nm) to I_3 (383 nm) peaks of pyrene as a function of Dex-*g*-SS-OLLA concentration in PB solution.



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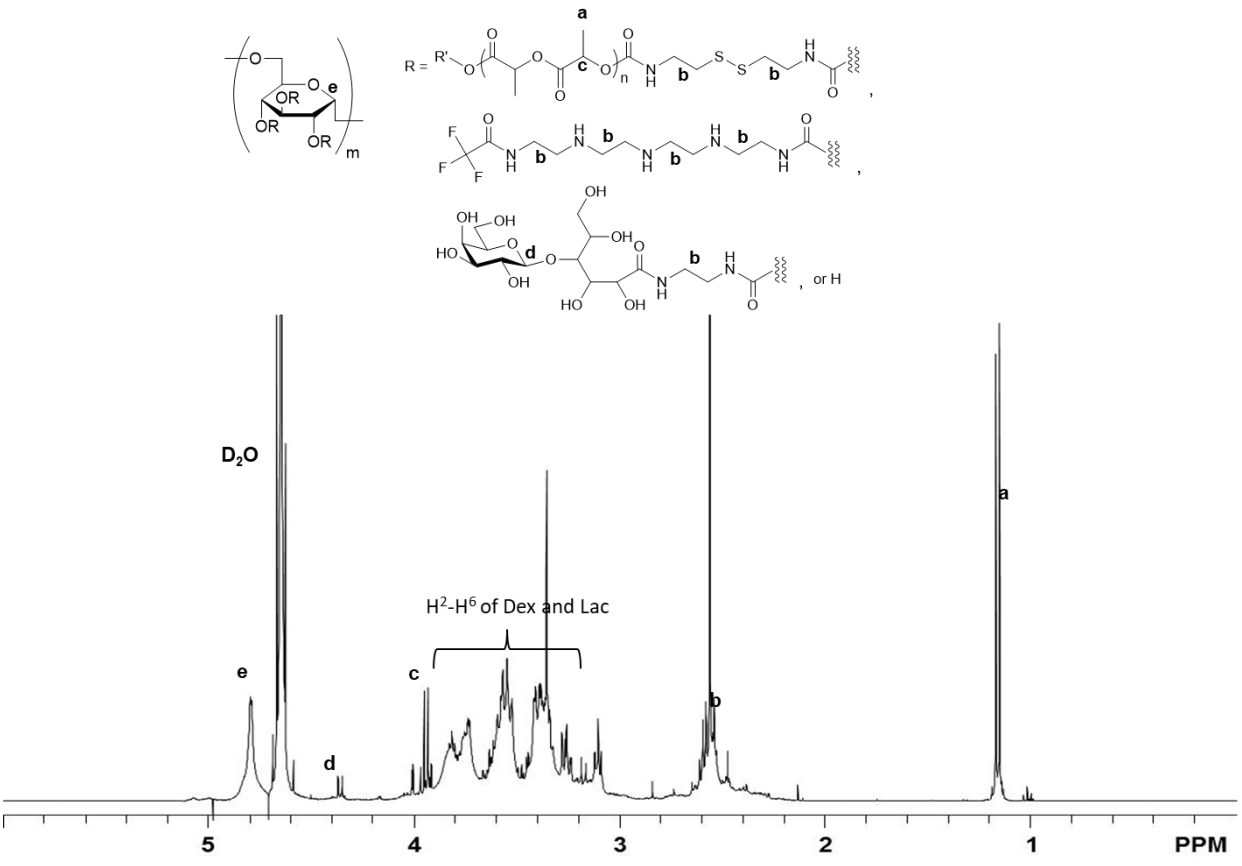
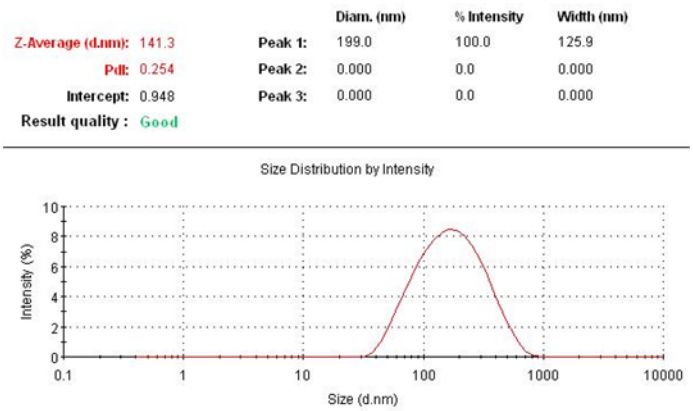


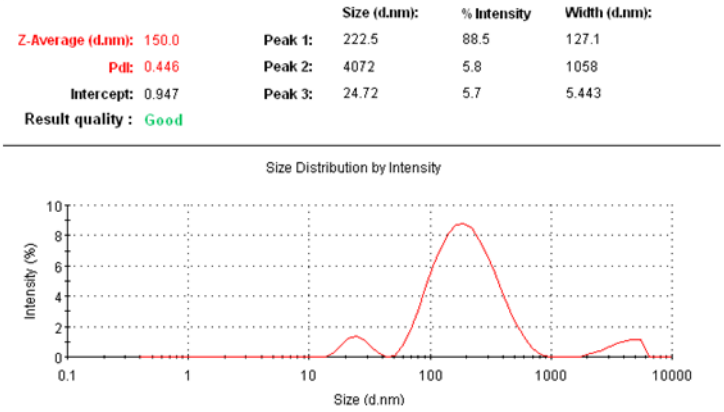
Figure S2. ^{1}H NMR spectrum for hydrolysis products of EI_4/Gal-Dex-*g*-SS-OLA in NaOD/D_2O.

The alkyl group at the terminal of OLA was not observed because of insolubility in aqueous solution.

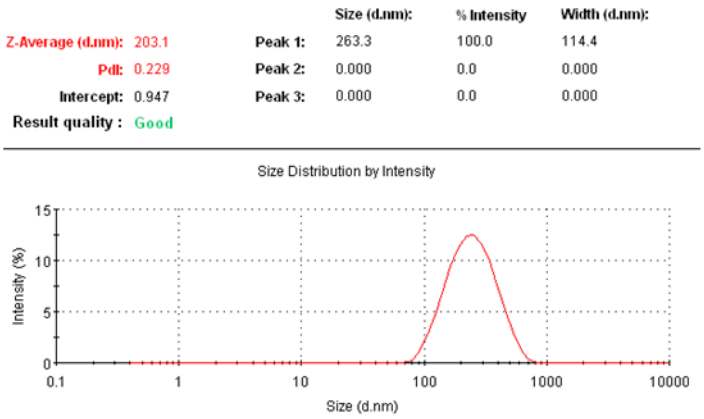
Dex-g-OLA
Z-average = 141 nm
(intensity peak at 199nm)



Dex-g-SS-OLA
Z-average = 150 nm
(intensity peak at 223nm)



EI_4/Gal-Dex-g-SS-OLA
Z-average = 203 nm
(intensity peak at 263 nm)



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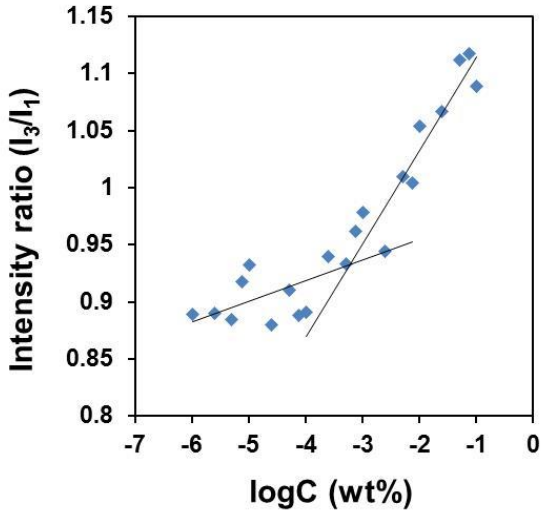

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