

## Electronic Supplementary Information

### A Facile Approach for Thermo and Reduction Dual-Responsive

### Prodrug Nanogels for Intracellular Doxorubicin Delivery

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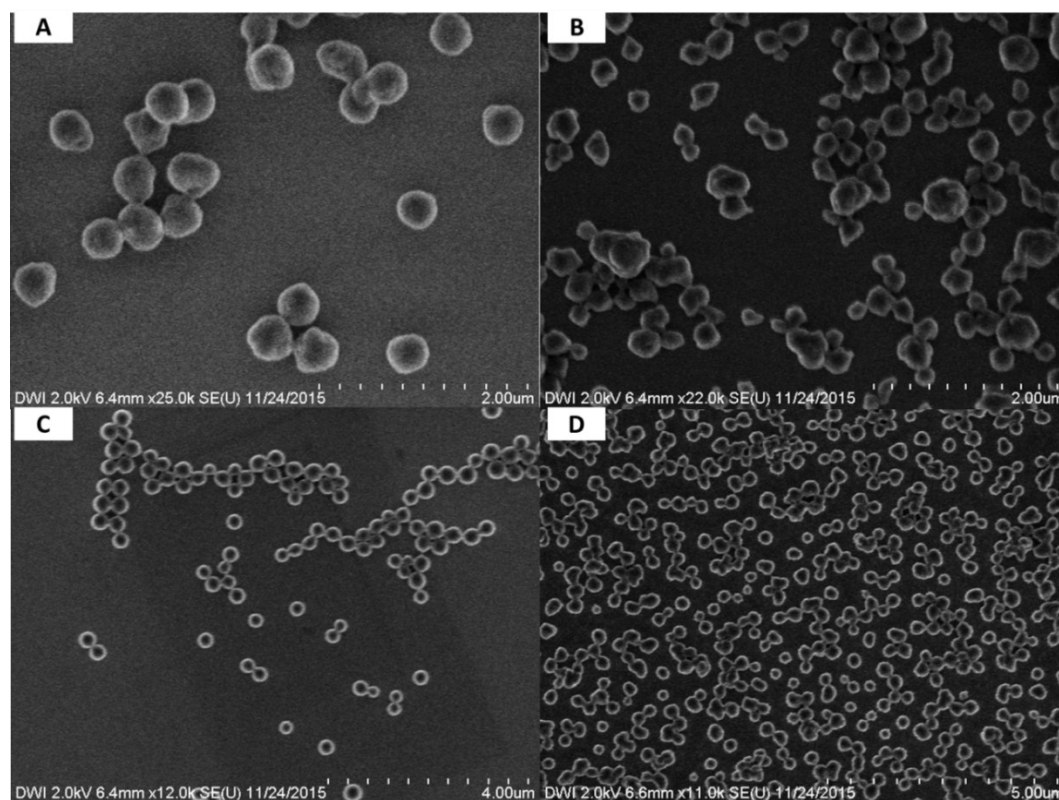


Fig. S1 FESEM images of nanogels prepared with H<sub>2</sub>O/MeCN ratio (v/v) : A) 1, B) 1.5, C) 2, D) 3.

The nanogels were prepared in 150 mL blend solvent with 1.25g PVP ( $M_n \sim 40$  kDa)

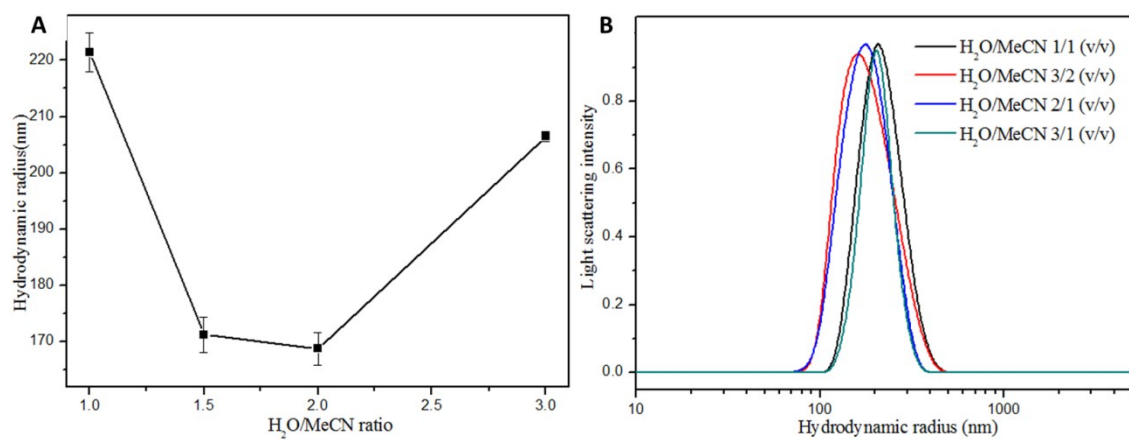


Fig. S2 Hydrodynamic radius (A) and particle size distribution of nanogels prepared with different H<sub>2</sub>O/MeCN ratio measured by DLS. The nanogels were prepared in 150 mL blend solvent with 1.25g PVP ( $M_n \sim 40$  kDa).

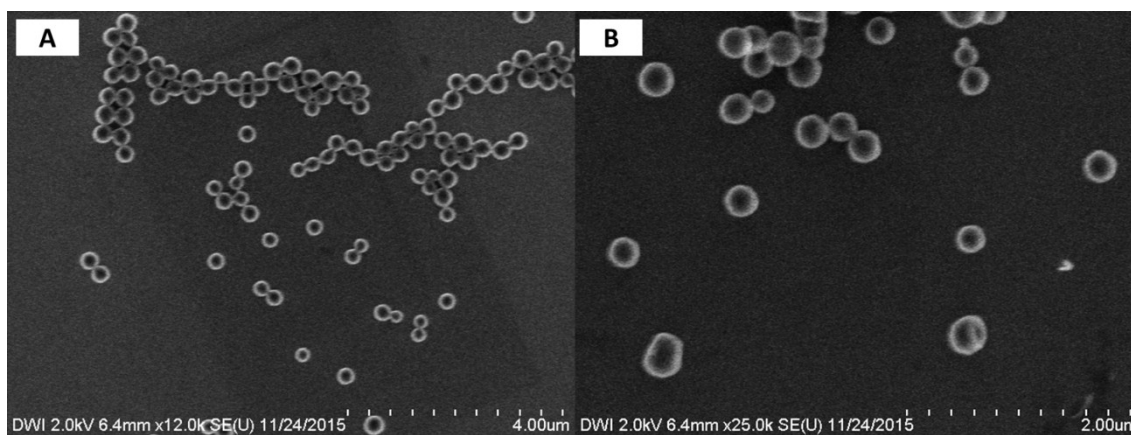


Fig. S3 FESEM images of nanogels (NG) and DOX loaded nanogels (DOX-NG).

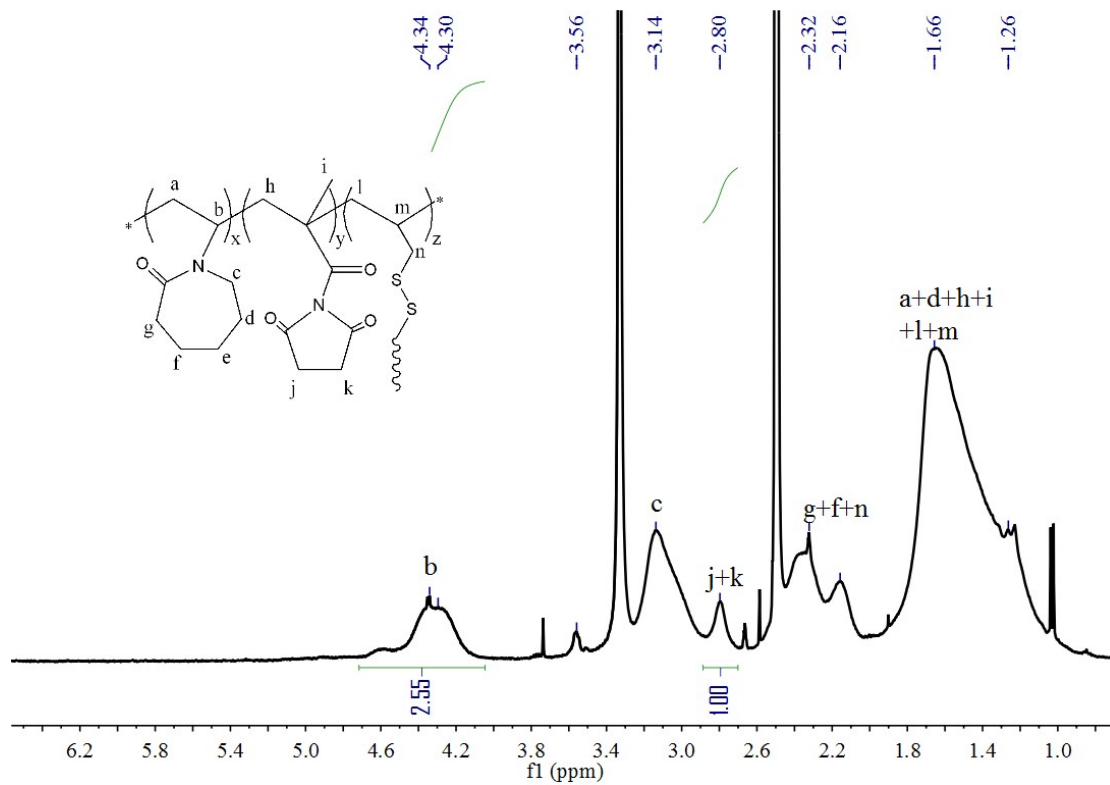


Fig. S4  $^1\text{H}$  NMR of the poly(VCL-co-Suma) Nanogels (NG) in DMSO- $d_6$ .

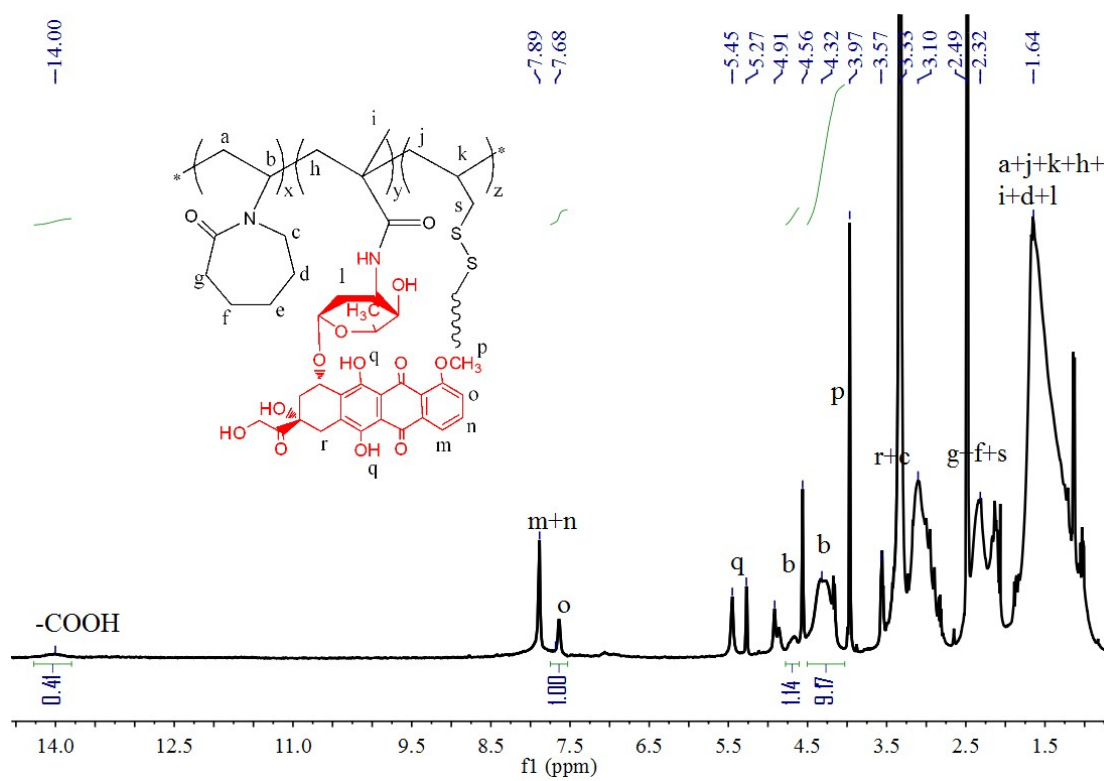


Fig. S5  $^1\text{H}$  NMR of the DOX-NG in DMSO- $d_6$ .

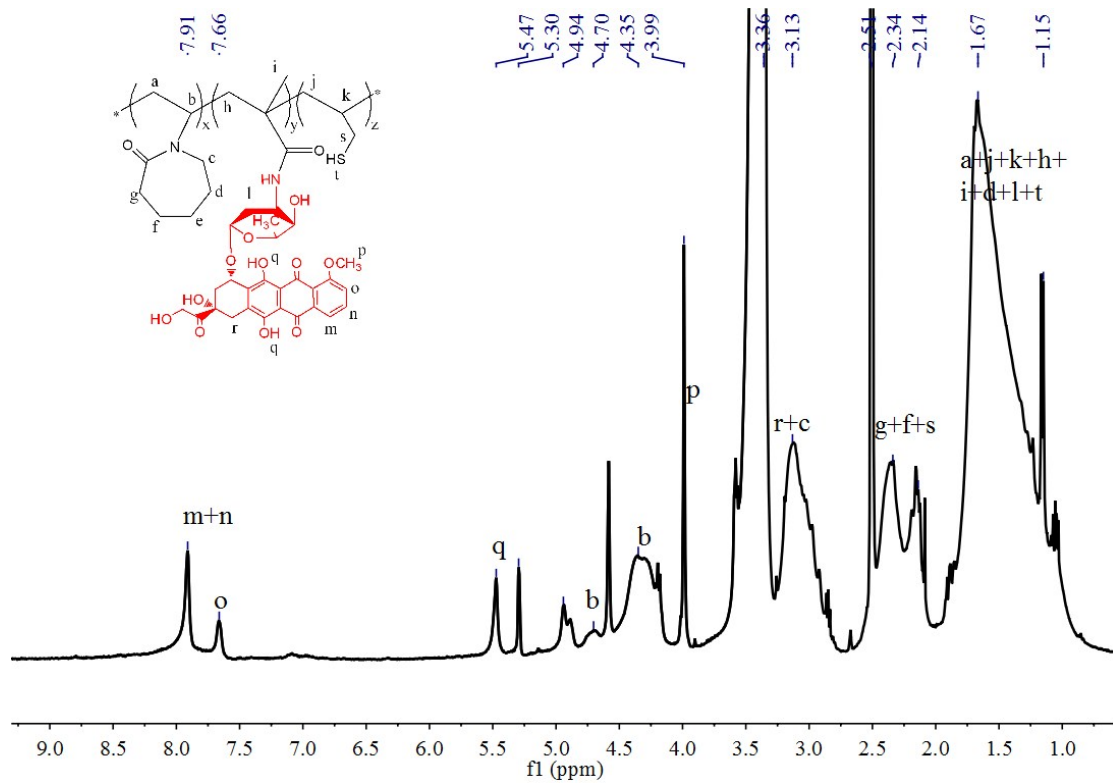


Fig. S6  $^1\text{H}$  NMR of the degradation products of DOX-NG in DMSO- $d_6$ .