Supporting information

Tumor-mediated shape-transformable nanogels with pH/redox/enzymatic-sensitivity for anticancer therapy

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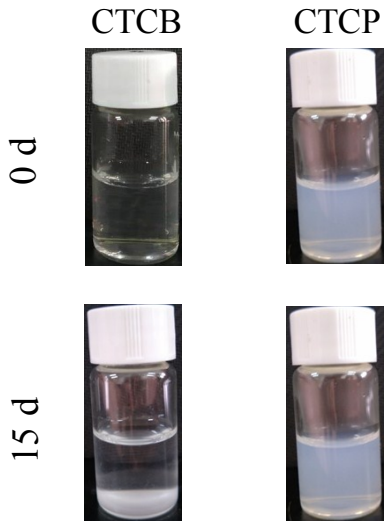

Figure S1. Colloidal stability of CTCB and CTCP nanogels at day 0 and day 15 incubation in water.

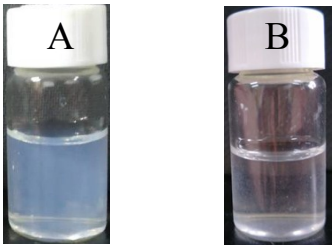

Figure S2. Digital photos of CTCP nanogels in PBS buffer in the absence (A) and presence (B) of dithiothretol (10.0 mM) and lysozyme (0.5 mg/mL).

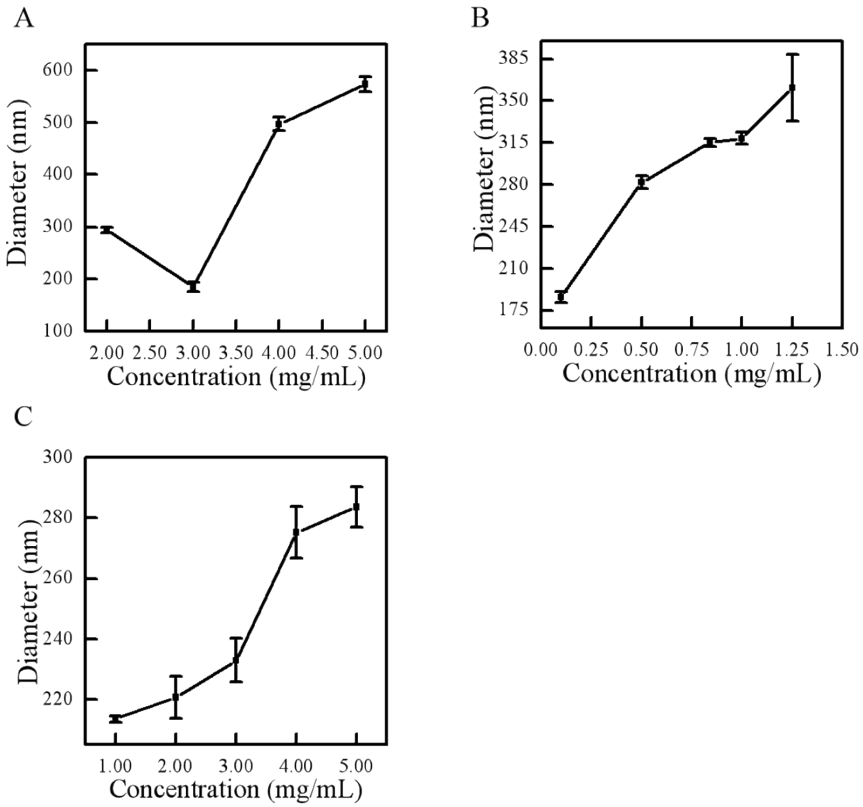

Figure S3. Variation of hydrodynamic size of the biodegradable nanogels as a function of (A) BAC concentration, (B) CMCC concentration, and (C) CMCC/CTS concentration (the CMCC/CTS ratio was constantly kept at 1:1).

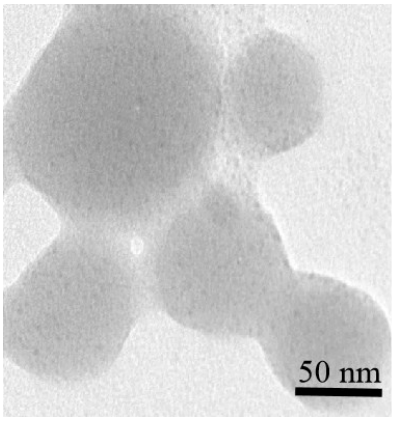

Figure S4. TEM morphology of CTCB nanogels

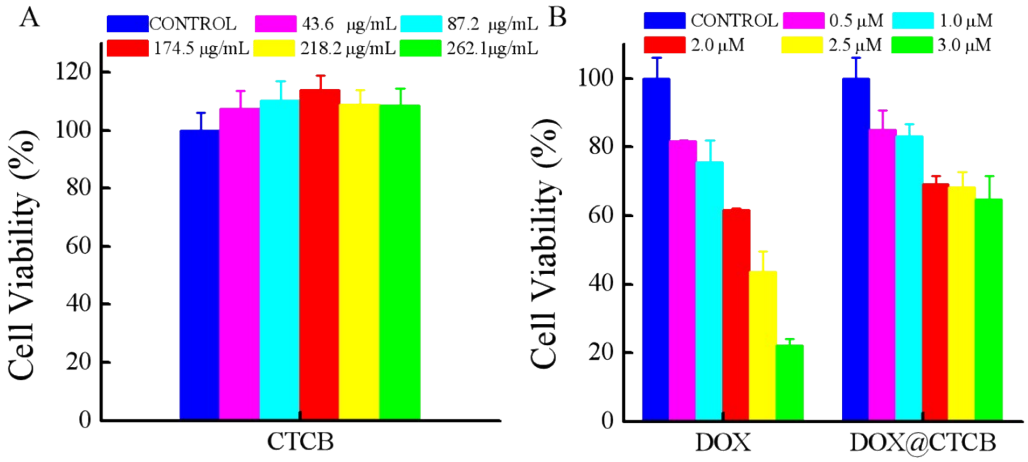

Figure S5. Cell viability of A549 cells exposed to (A) CTCB, as well as (B) free DOX and DOX@CTCB (with equivalent DOX concentration) for 48 h.

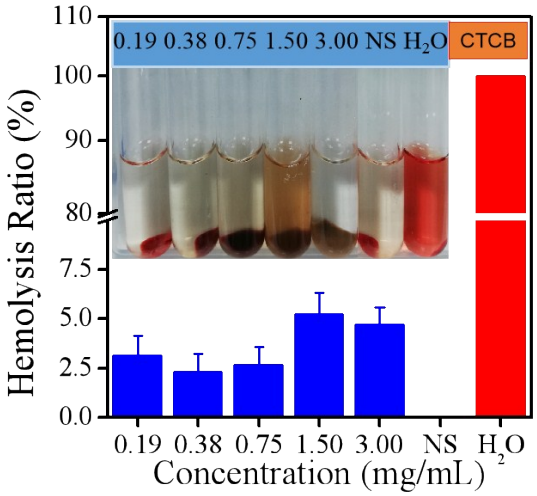

Figure S6. Hemolysis assay of red blood cell (RBC) incubated with CTCB nanogels at different concentrations (NS: normal saline, 0.9% saline injection solution, negative control; H_2O: sterile purified water, positive control).

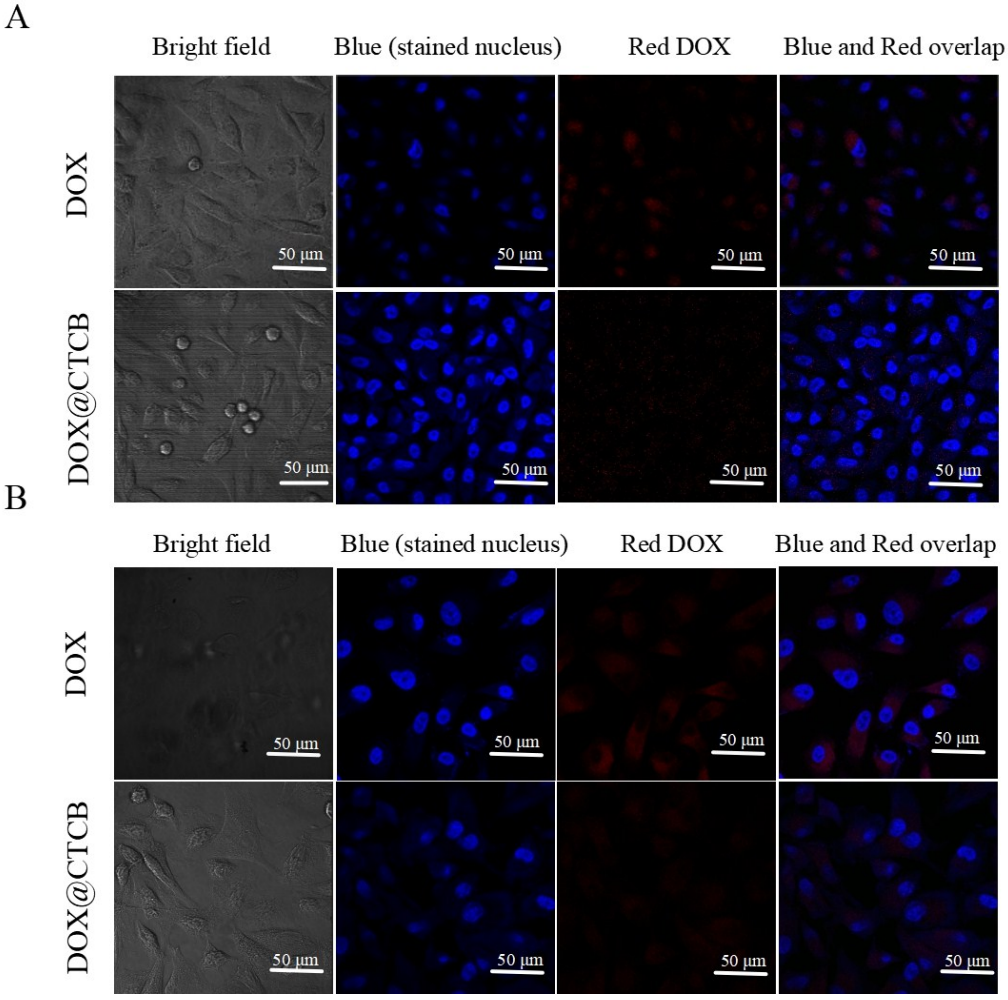

Figure S7. Fluorescence microscopy images of A549 cells after culture with free DOX and DOX@CTCB (with equivalent 2 μM DOX) for 4 h (A) and 24 h (B).