Supporting Information

For:

Reduction-responsive fluorescence off-on BODIPY-camptothecin conjugates for self-reporting drug release

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Figure S1. Mass spectrum of BDP-SS-CPT.

Figure S2: HPLC curve of BDP-SS-CPT with the mixture solution of CH$_3$CN/CH$_3$OH (4:1, v/v) as the mobile phase solvent.
Figure S3: Fluorescence response of **BDP-SS-CPT** (3 μM) to DTT, GSH, Cys and Hcy (1 mM).

Figure S4: Fluorescence response of **BDP-SS-CPT** (3 μM) to DTT (1 mM) in the presence of various metal cations (1 mM): Na⁺, K⁺, Mg²⁺, Mn²⁺, Zn²⁺, Cd²⁺, Ni²⁺, Cu²⁺.
Figure S5: Mass spectrum of BDP-SS-CPT (5 µM) in the present of GSH (10 mM).

Figure S6: UV-vis absorption and PL (λ<sub>ex</sub> = 360 nm) spectra of BDP-SS-CPT NPs.
Figure S7: The size changes of BDP-SS-CPT NPs in the present of DTT (1 mM).

Figure S8: Confocal microscopy images of HeLa cells incubated with BDP-SS-CPT NPs. The cells were incubated with serum free DMEM medium containing BDP-SS-CPT NPs (10 μM), and then the images were obtained at different time point (10min, 1 and 3h) at 37°C. The cell images were obtained using the DAPI channel (left panel) and the FITC channel (middle panel).
Figure S9: (a) Confocal Microscopy images of HeLa cells treated with 10 μM of BDP-SS-CPT NPs in PBS buffer, total incubation period of 30 min; (b) cells were pretreated with NEM (1.0 mM) in PBS buffer for 30 min, then treated with 10 μM of BDP-SS-CPT NPs in PBS buffer, incubation period of 30 min.