

## Supporting Information

For:

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

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LZS-1\_150812092939 #173-185 RT: 1.30-1.38 AV: 13 NL: 4.16E4  
T: FTMS + c ESI Full ms [50.00-2000.00]

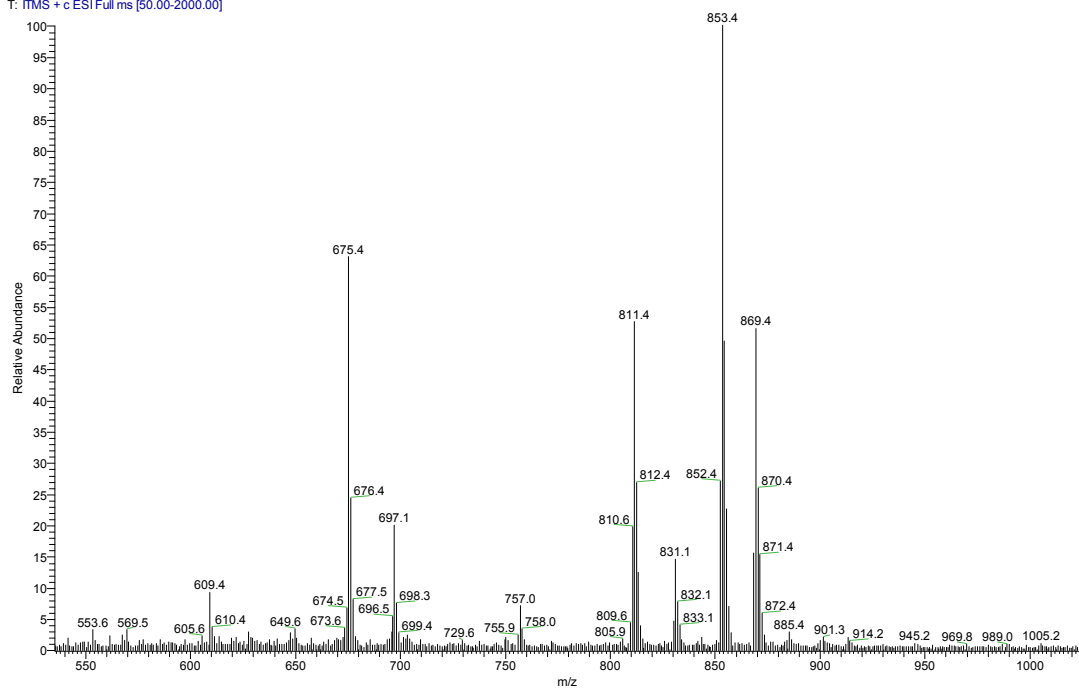


Figure S1. Mass spectrum of **BDP-SS-CPT**.

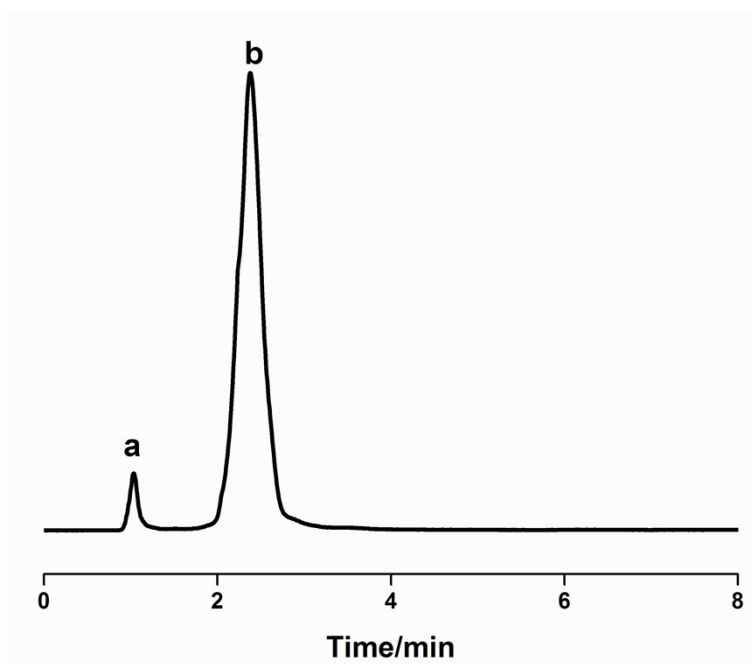


Figure S2: HPLC curve of **BDP-SS-CPT** with the mixture solution of  $\text{CH}_3\text{CN}/\text{CH}_3\text{OH}$  (4:1, v/v) as the mobile phase solvent.

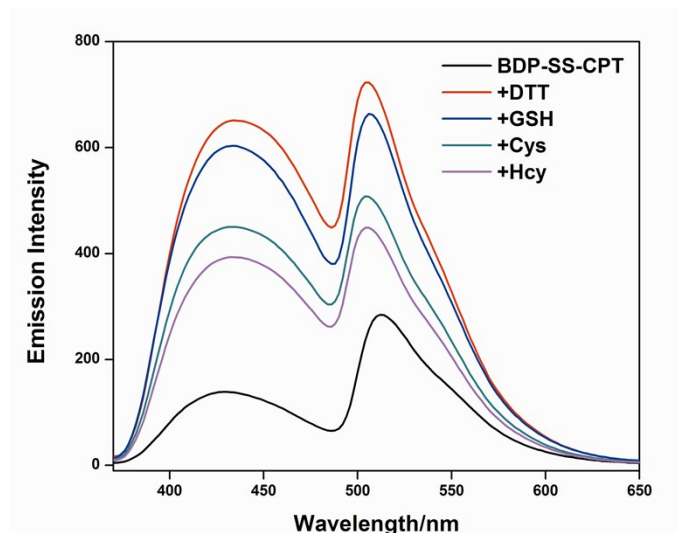


Figure S3: Fluorescence response of **BDP-SS-CPT** (3 μM) to DTT, GSH, Cys and Hcy (1 mM).

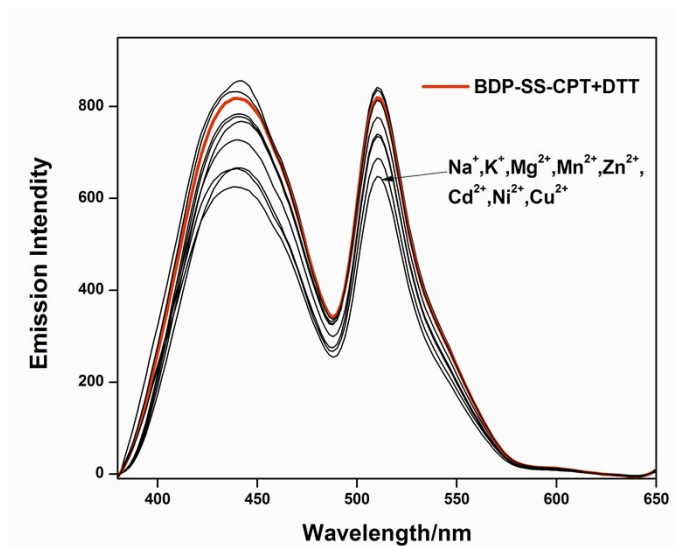


Figure S4: Fluorescence response of **BDP-SS-CPT** (3 μM) to DTT (1 mM) in the presence of various metal cations (1 mM): Na<sup>+</sup>, K<sup>+</sup>, Mg<sup>2+</sup>, Mn<sup>2+</sup>, Zn<sup>2+</sup>, Cd<sup>2+</sup>, Ni<sup>2+</sup>, Cu<sup>2+</sup>.

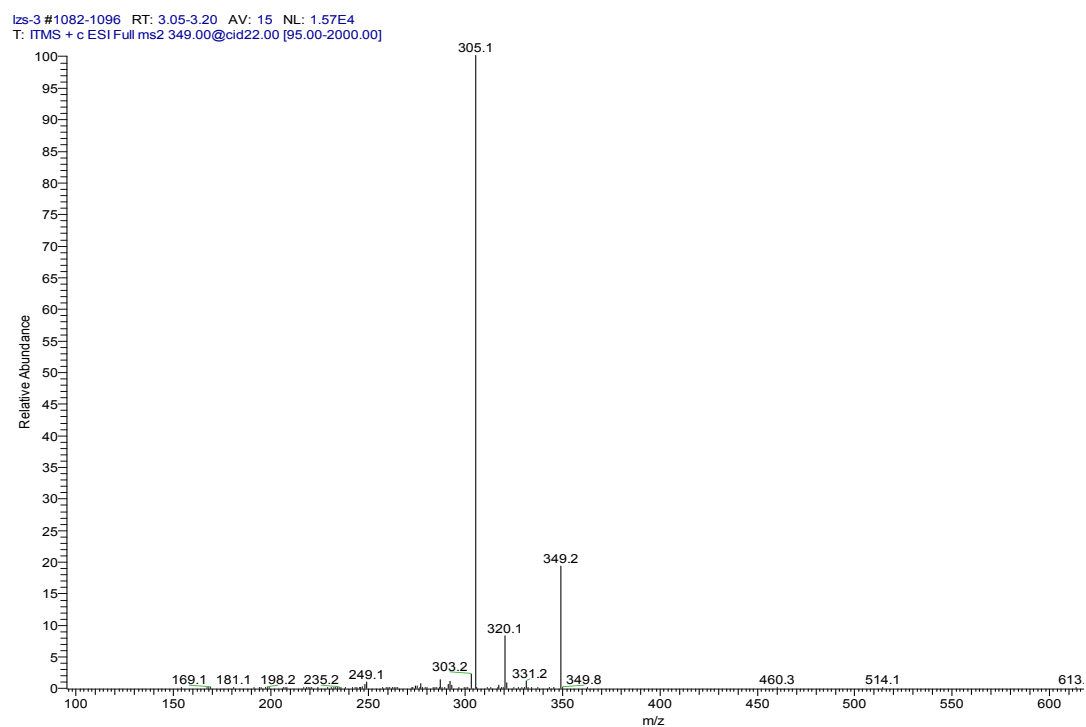


Figure S5: Mass spectrum of **BDP-SS-CPT** (5  $\mu$ M) in the present of GSH (10 mM).

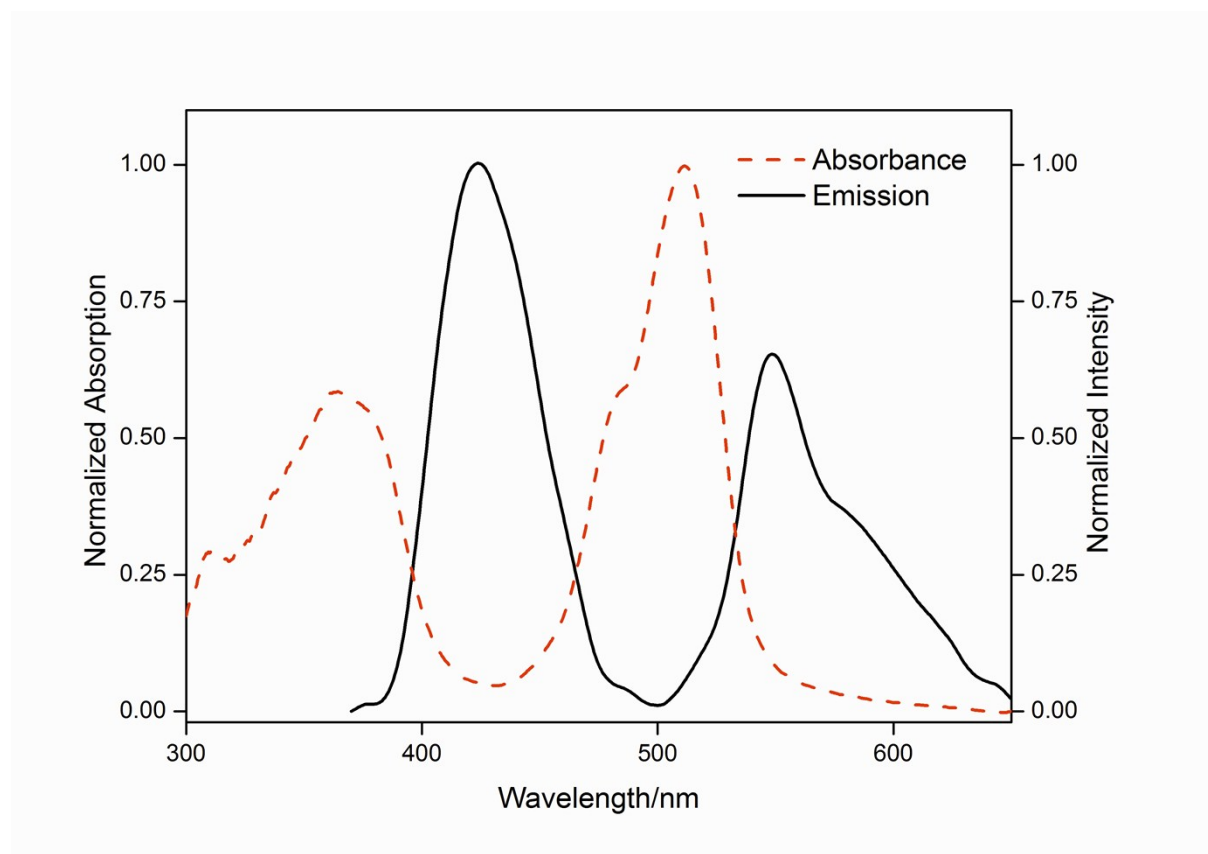


Figure S6: UV-vis absorption and PL ( $\lambda_{\text{ex}} = 360$  nm) spectra of **BDP-SS-CPT NPs**.

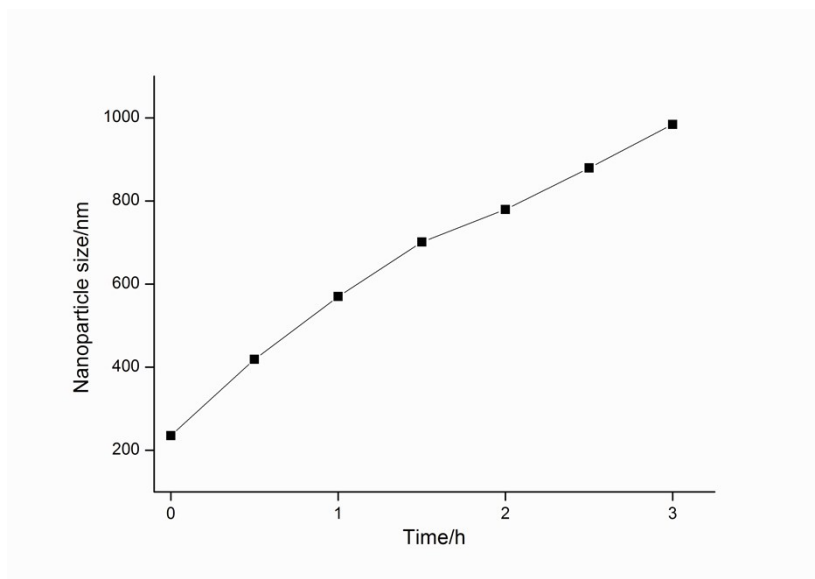


Figure S7: The size changes of **BDP-SS-CPT NPs** in the present of DTT (1 mM).

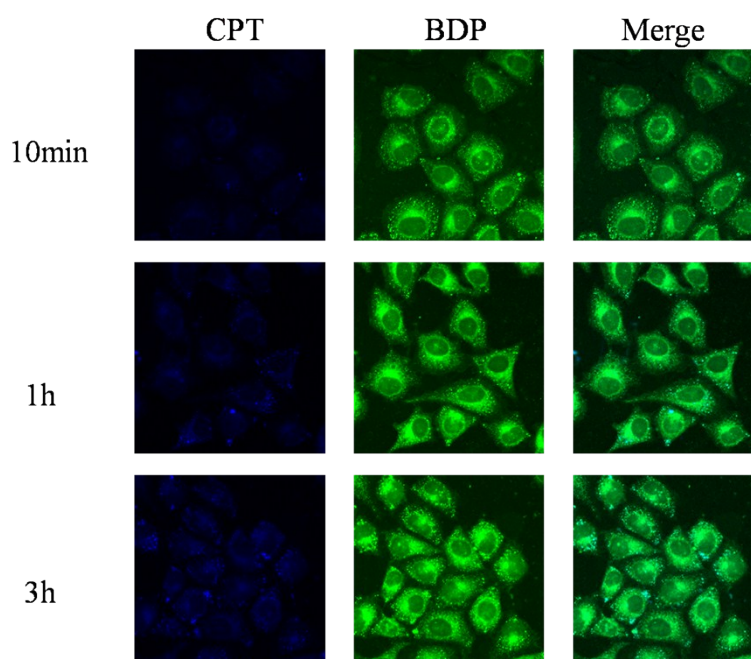


Figure S8: Confocal microscopy images of HeLa cells incubated with **BDP-SS-CPT NPs**. The cells were incubated with serum free DMEM medium containing **BDP-SS-CPT NPs** (10  $\mu$ M), and then the images were obtained at different time point (10min, 1 and 3h) at 37°C. The cell images were obtained using the DAPI channel (left panel) and the FITC channel (middle panel).

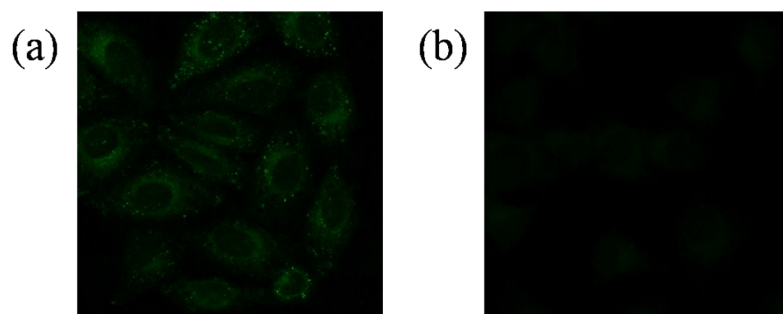


Figure S9: (a) Confocal Microscopy images of HeLa cells treated with 10  $\mu$ M of **BDP-SS-CPT NPs** in PBS buffer, total incubation period of 30 min; (b) cells were pretreated with NEM (1.0 mM) in PBS buffer for 30 min, then treated with 10  $\mu$ M of **BDP-SS-CPT NPs** in PBS buffer, incubation period of 30 min.