Supporting Information for

Theranostics system caged in human serum albumin against breast tumor

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Figure S1. ¹H NMR spectrum of DDC@HSA in CD₃OD at room temperature



Figure S2. The fluorescence spectrum of the dye in this work in acetonitrile/PBS 7.4 (1:1 v:v).



Figure S3. TEM image micromorphology of DDC@HSA stored at 4 °C for 7 days obtained from TALOS F200X electron microscope, where the samples on the carbon TEM nets were prepared by the phosphotungstic acid staining technique (scale bars=500 nm).



Figure S4. The ¹H NMR spectra of DDC@HSA in CD₃OD at room temperature treated with excess GSH.



Figure S5. The in vitro "Off-to-On" procedures of fluorescence on HEK-203 cells treated with DDC@HSA over time observed by confocal microscopy (A: 0 h; B: 0.5 h; C: 1 h; D: 1.5 h; E: 2 h; F: 2.5 h. Scale bar = $100 \mu m$).



Figure S6. The IVIS images of the mice intratumorally injected with DDC@HSA over time.



Figure S7. TUNEL assay (green: TUNEL for staining apoptotic cells; blue: DAPI for staining cell nucleus) of tumors excised from TNBC mice models after therapy in different groups.