

Supporting Information

In-Situ Self-Assembly of Conjugated Polyelectrolyte for Cancer Targeted Imaging and Photodynamic Therapy

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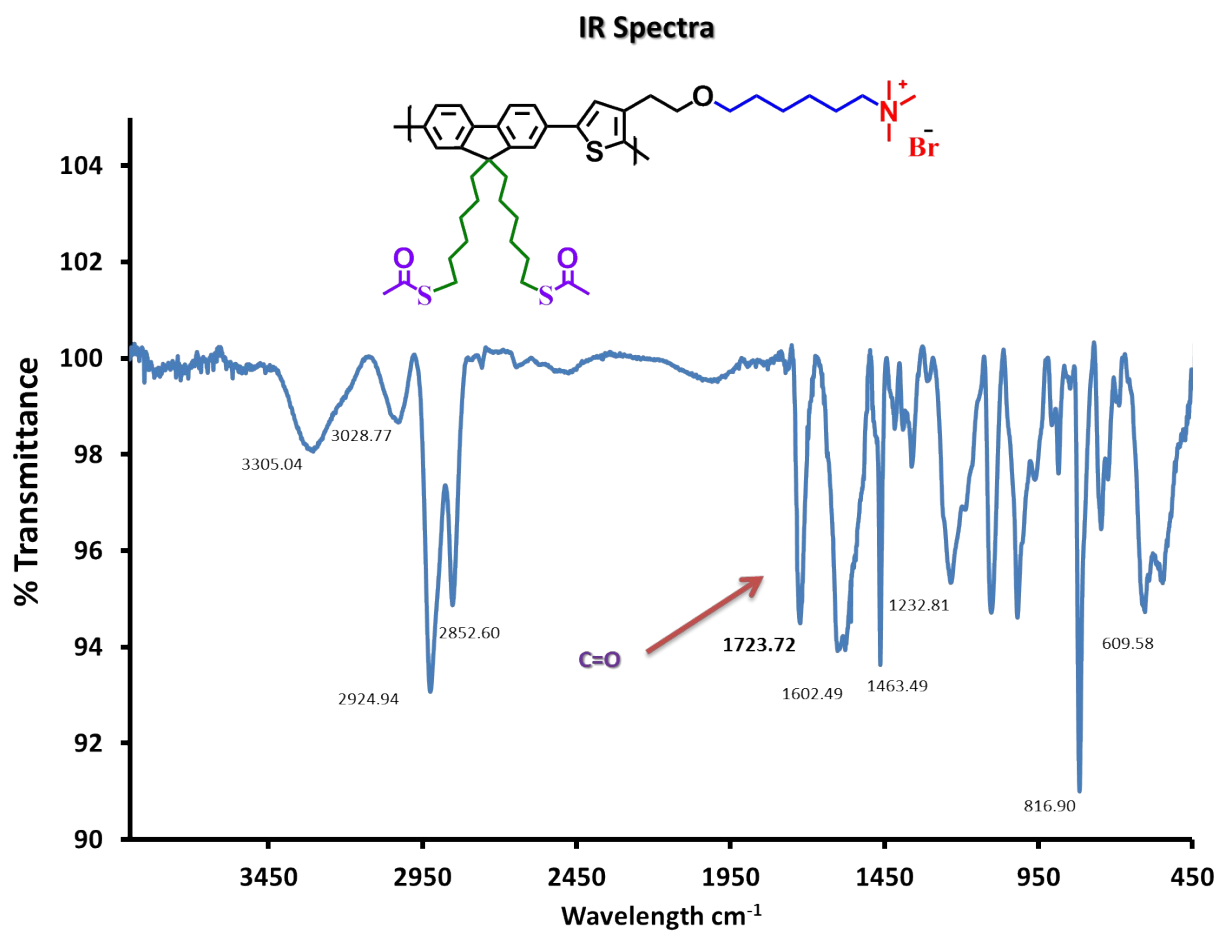


Figure S1. FTIR spectrum of polymer PFT-Thioester.

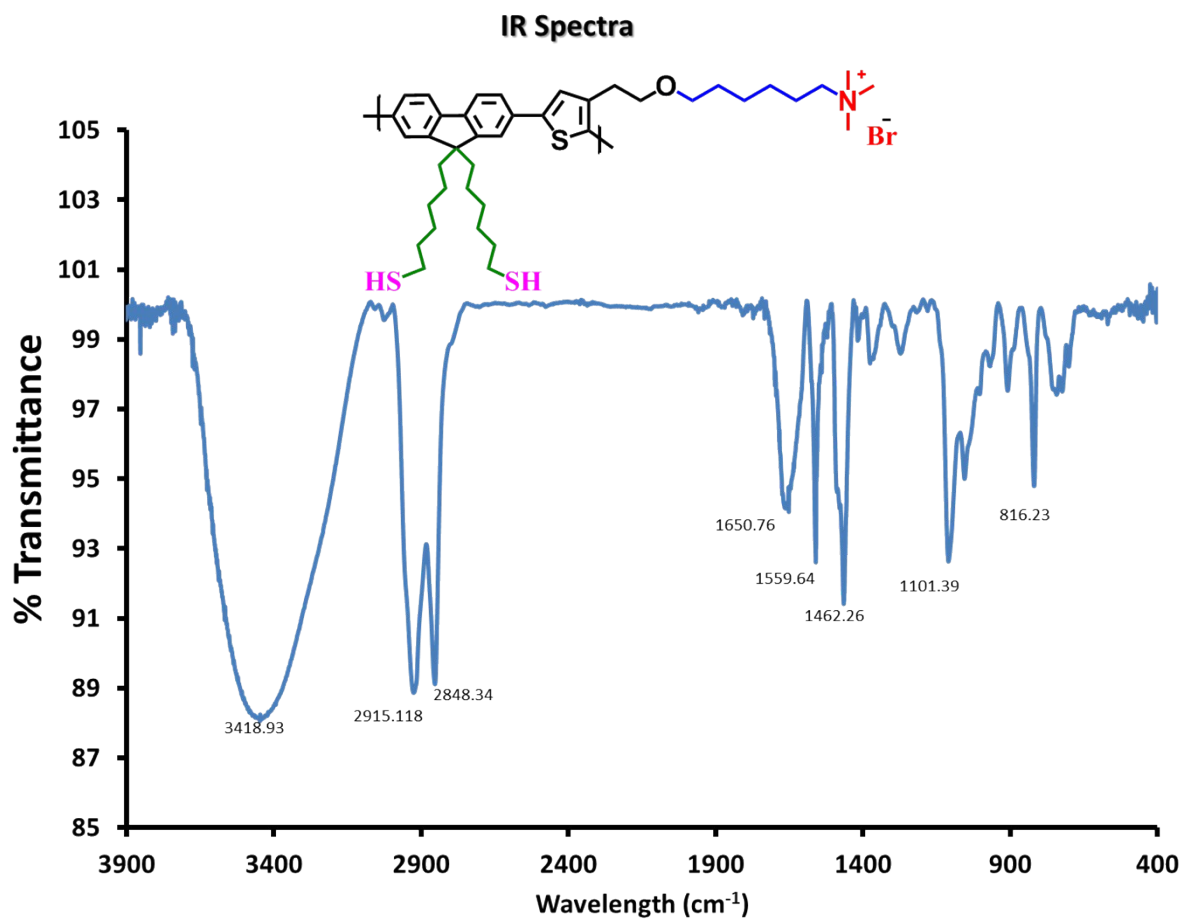


Figure S2. FTIR spectrum of polymer PFT-SH.

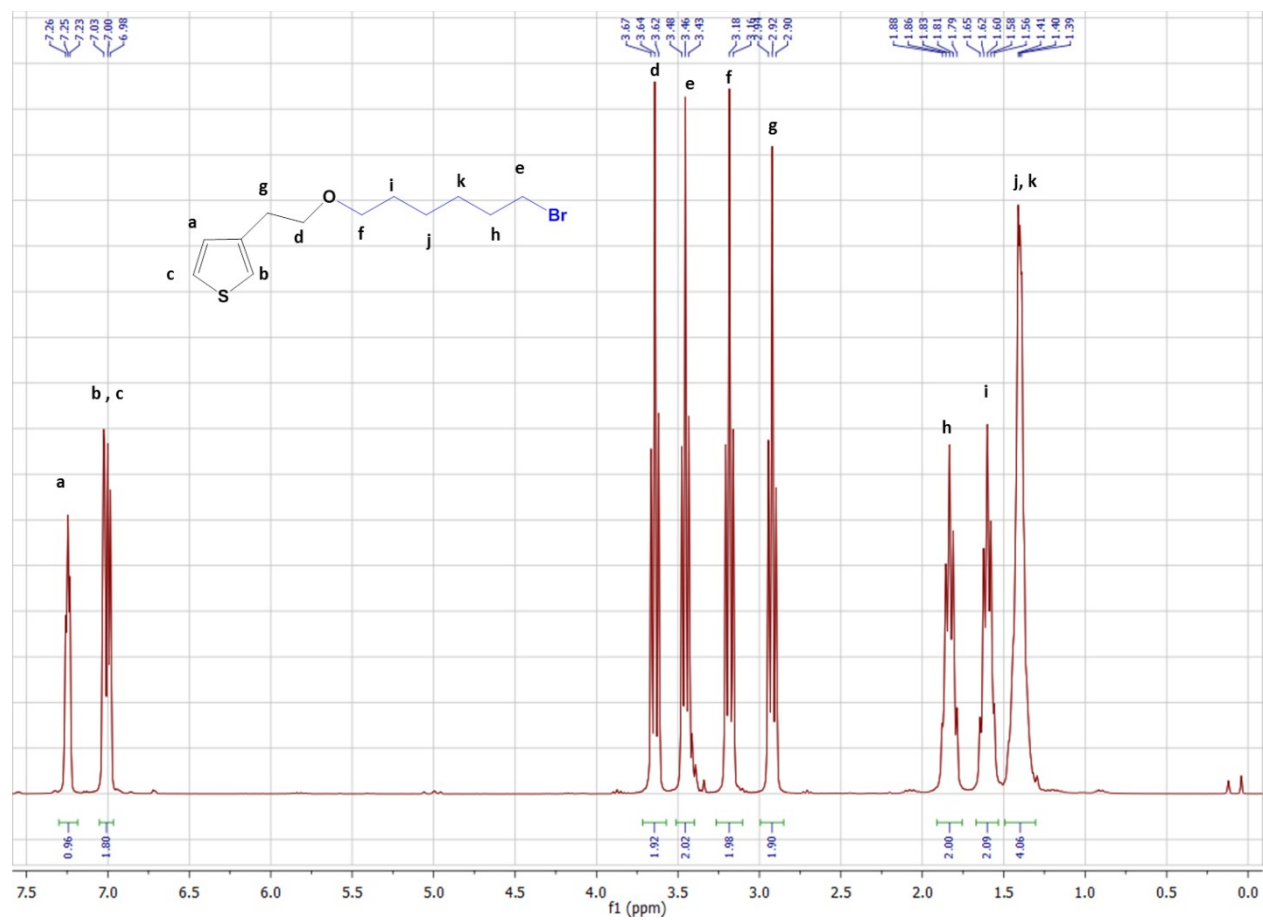


Figure S3. ¹H-NMR spectrum of Compound 1.

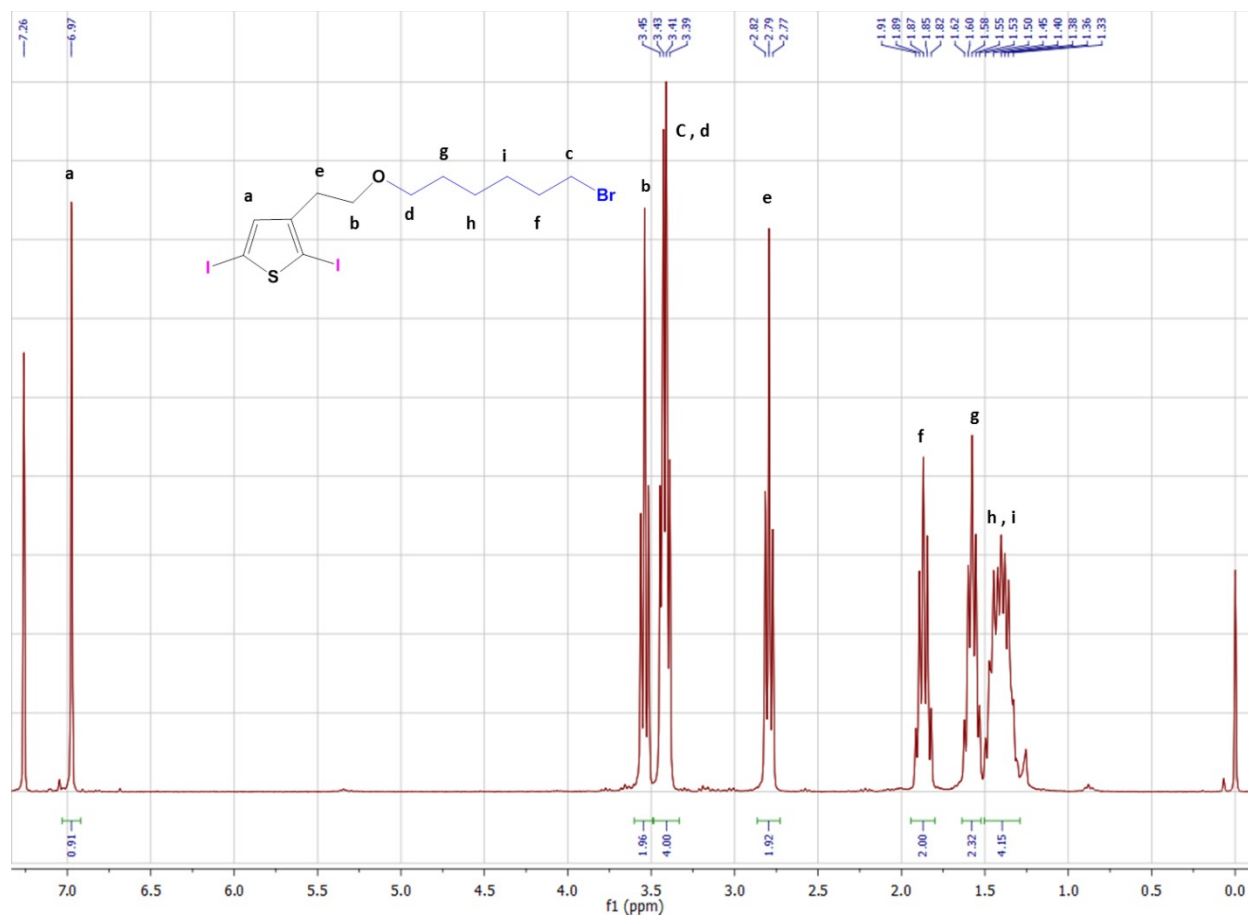


Figure S4. ¹H-NMR spectrum of Compound 2.

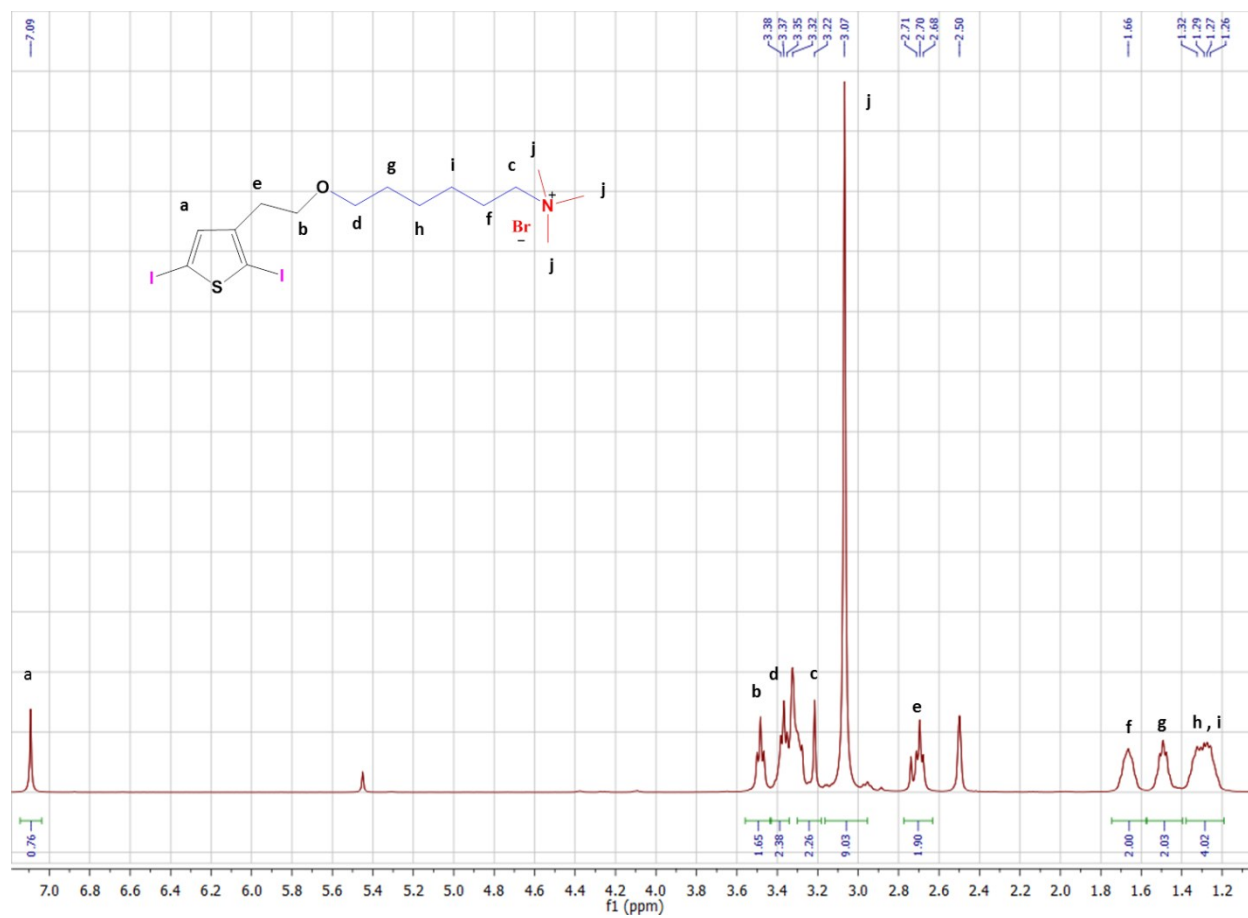


Figure S5. ^1H -NMR spectrum of Monomer 1.

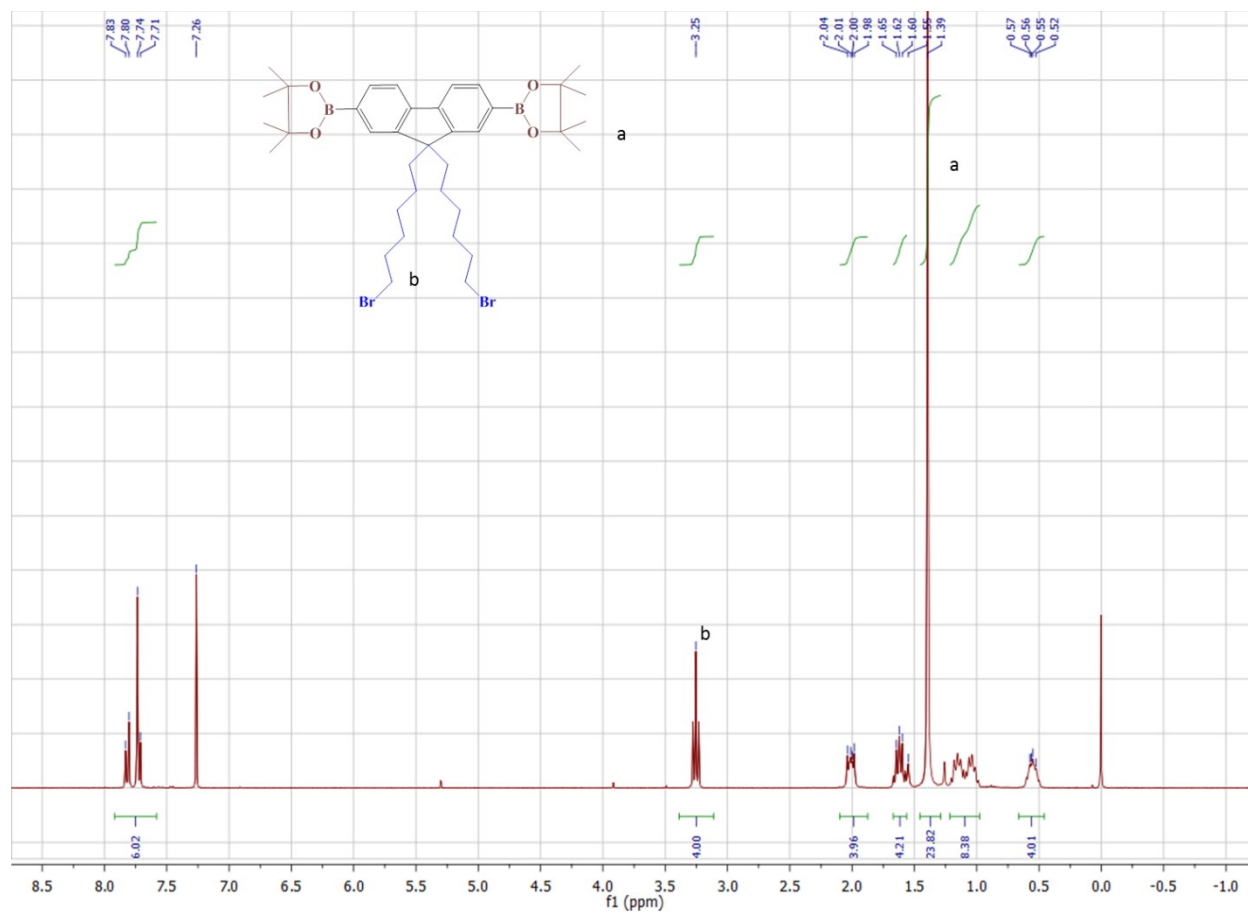


Figure S6. ^1H -NMR spectrum of Monomer 2.

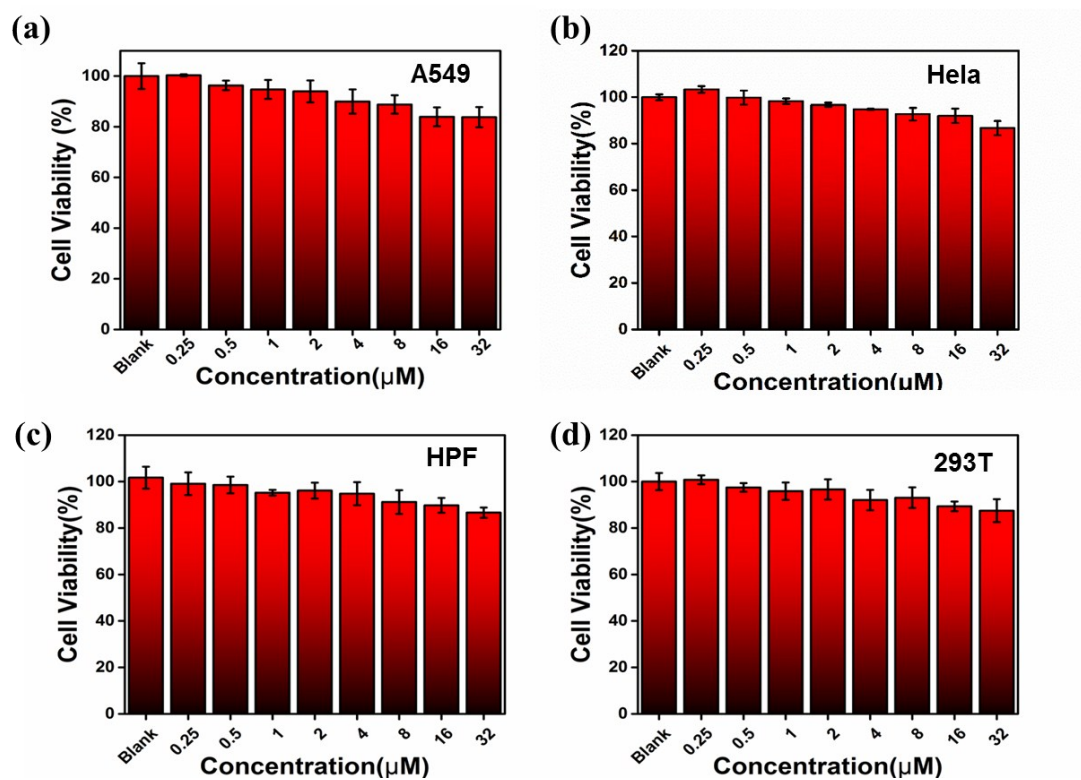


Figure S7. Cell viability of A549 cells (a), Hela cells (b) HPF cells (c) and 293T cells (d) after incubation with various concentrations of PFT-SH for 24 h.

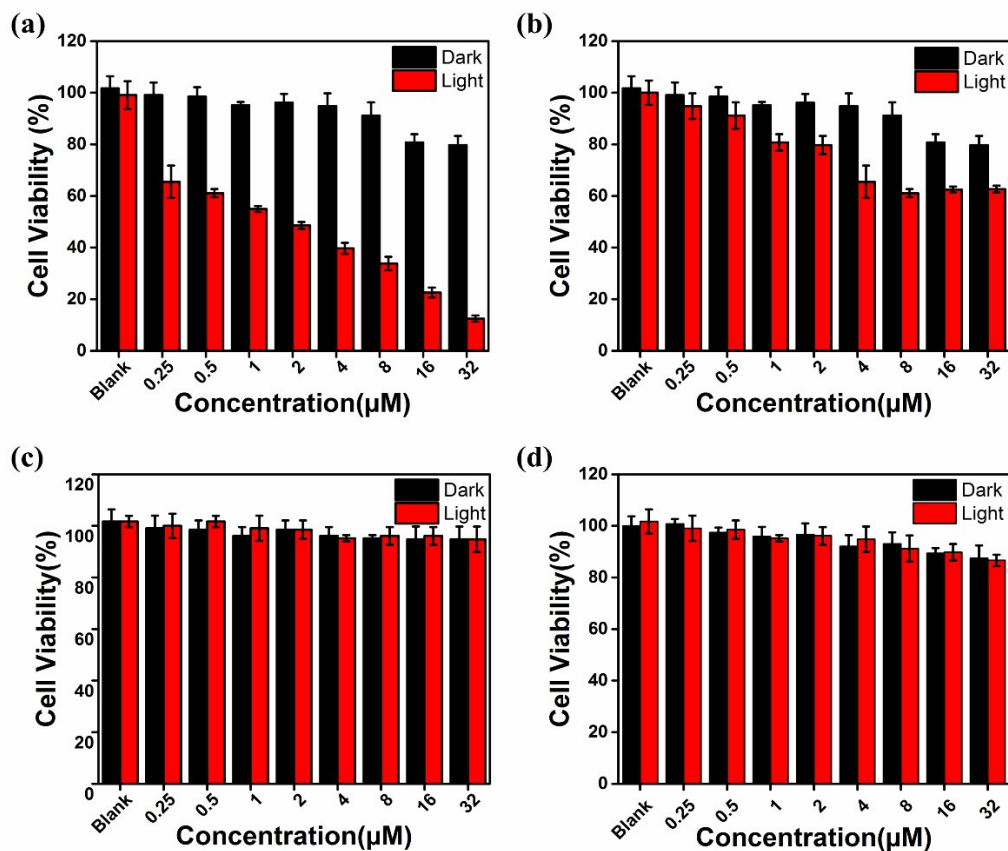


Figure S8. Cell viabilities of (a) A549 cells (b) Hela cells (c) HFP cells and (d) 293T cells after incubated with PFT-SH (10 μM) at different concentrations under white light irradiation (4 mW/cm²) for 30 min.

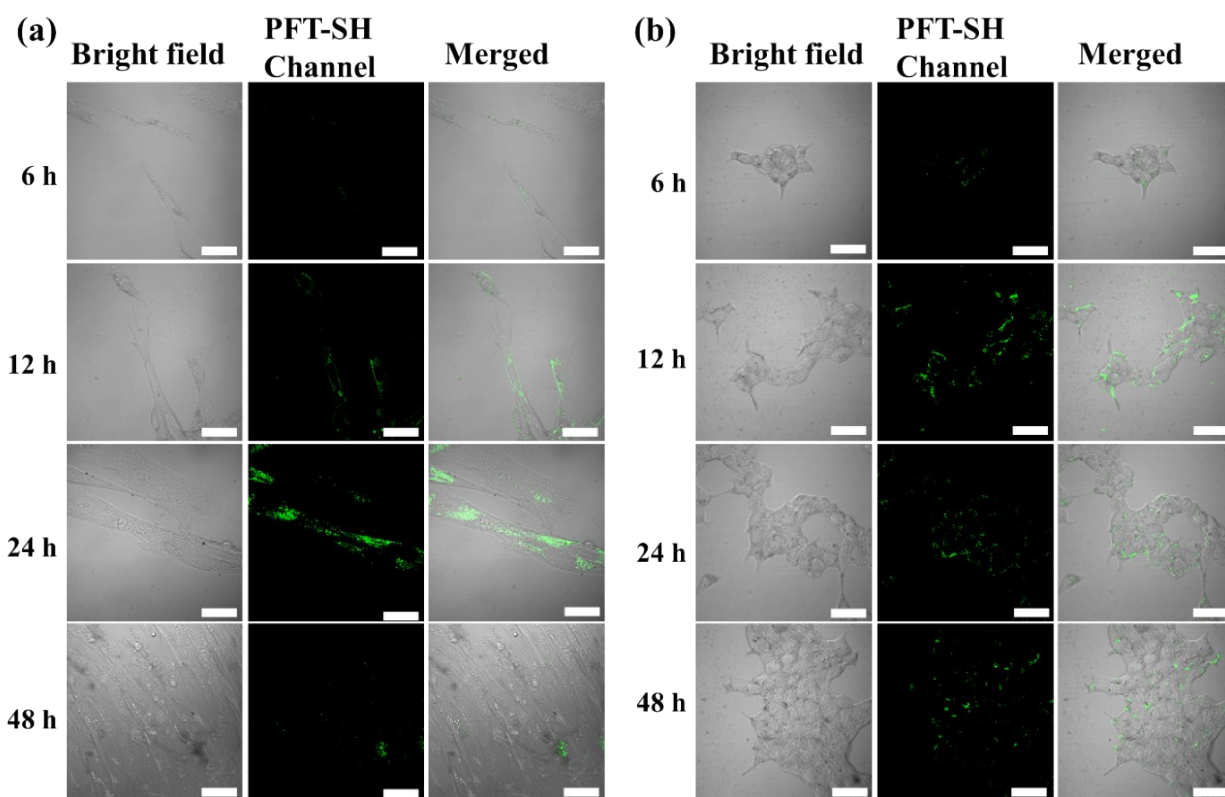


Figure S9. CLSM images of (a) HPF cells and (b) 293T cells after incubation with 10 μ M PFT-SH at different time intervals. The scale bars are 20 μ m.

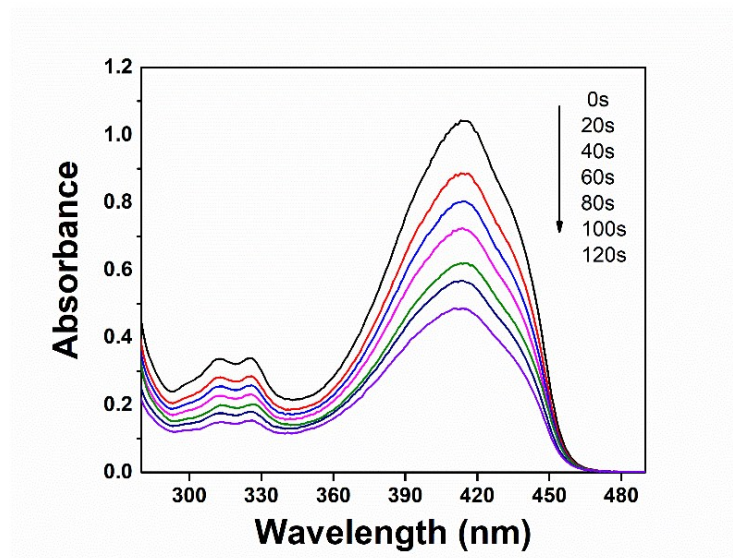


Figure S10. UV-Vis spectral change of PFT-SH and DPBF under irradiation (400 nm) over 120 s, recorded every 20 s.

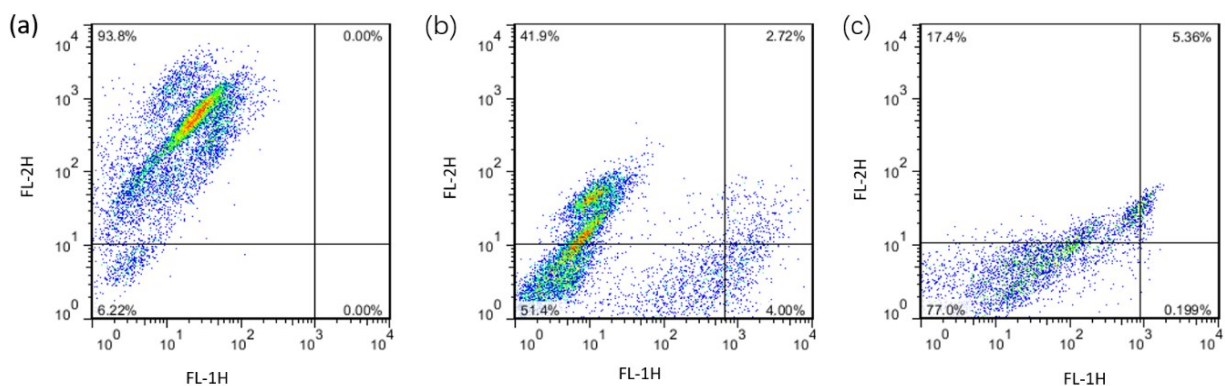


Figure S11. Cell apoptosis assays performed with an Annexin V-FITC apoptosis detection kit. Upper right quadrant and upper left quadrant shown late apoptosis and early apoptosis stage respectively. The percentage of cells revealed apoptosis (a) A549 cells with 93.8 % apoptosis (b) HeLa cells with 41.9 % apoptosis (c) HPF cells have only 17.4% apoptotic population.

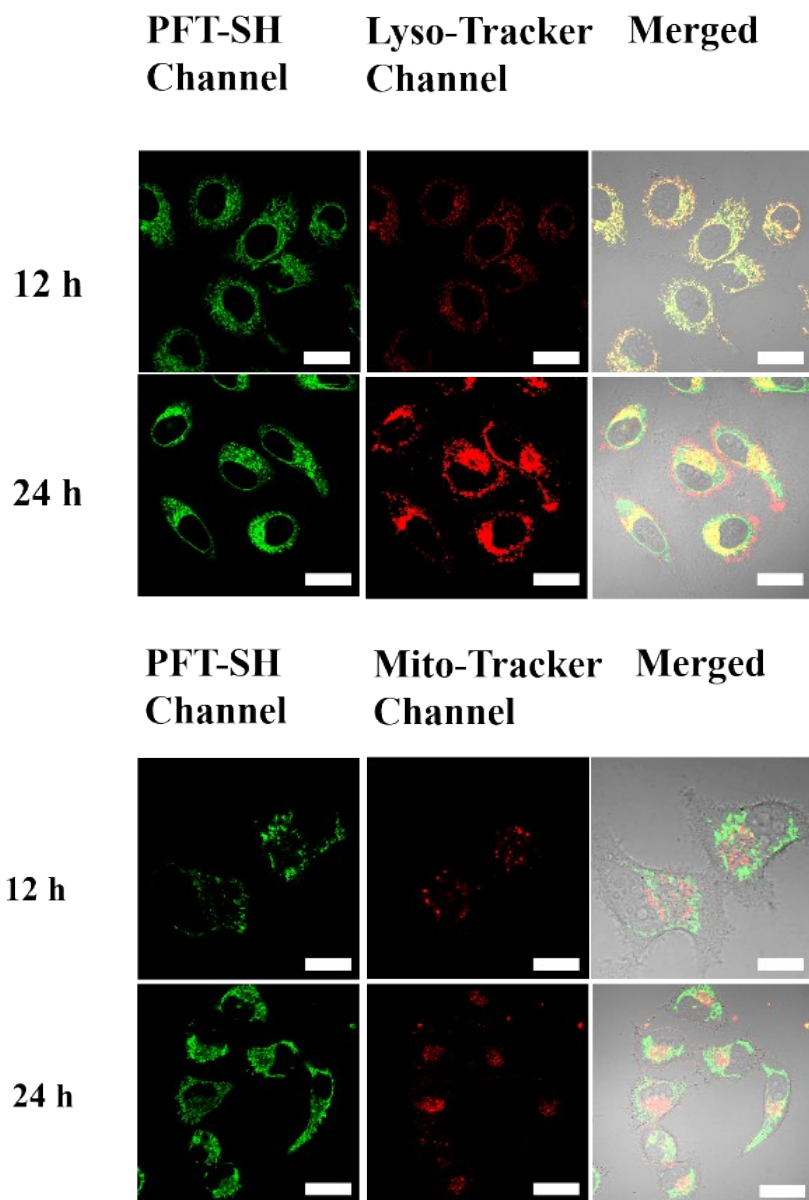


Figure S12. CLSM images of (a) A549 with 10 μ M PFT-SH incubated for 12 h and 24 h respectively. The scale bars are 20 μ M.

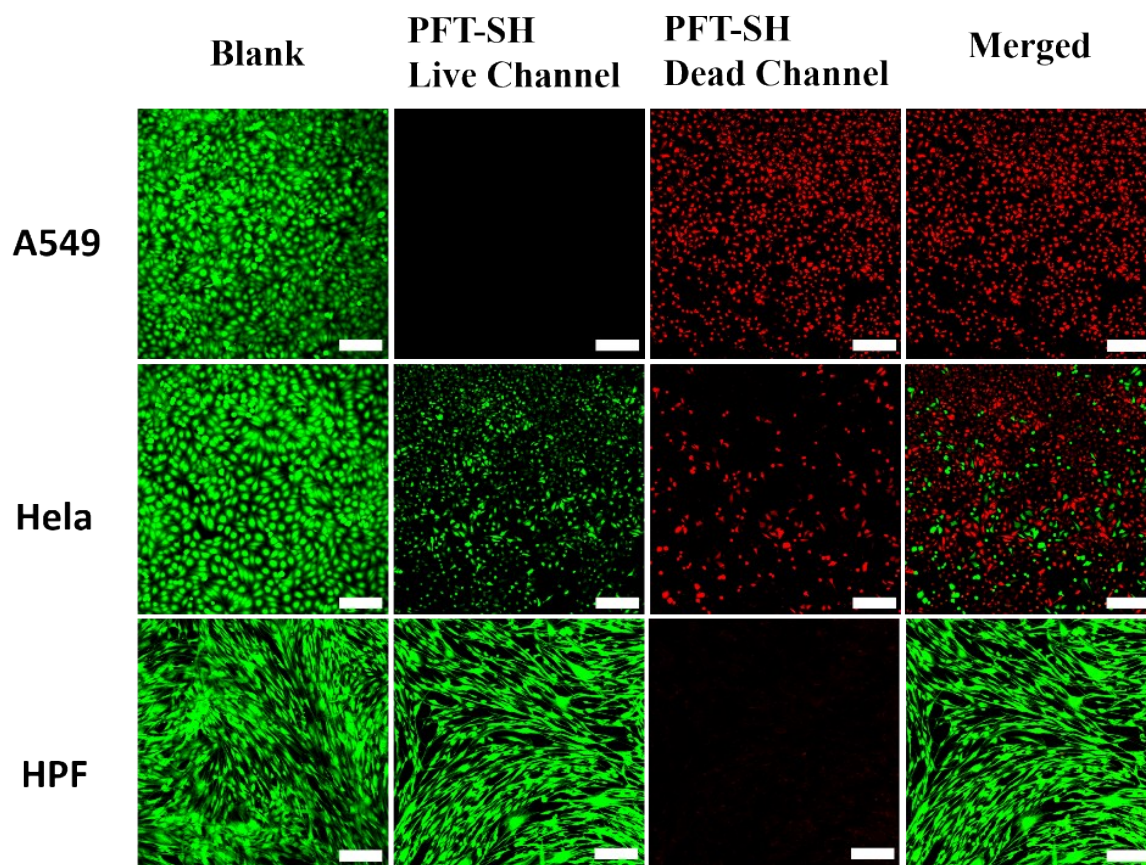


Figure S13. Confocal images of live and dead double-stained A549, Hela and HPF cells after PDT treatment. Green channel depicts live cells and red channel depicts compromised/dead cells.