

Photocaging Nanoparticles for MRI and Fluorescence Imaging *In vitro* and *In vivo*

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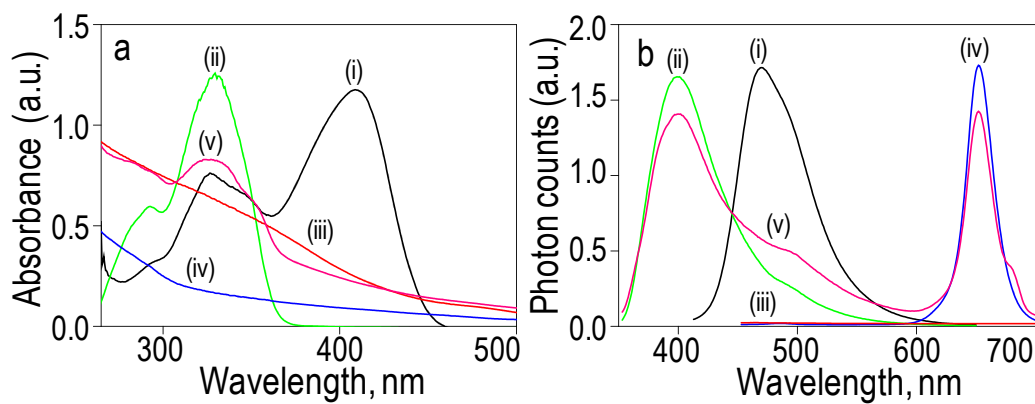


Figure S1. (a) UV-Vis absorption and (b) fluorescence spectra of (i) 5, (ii) 3, (iii) Fe_3O_4 NPs, (iv) CdSe/ZnS QDs and (v) PUNP.

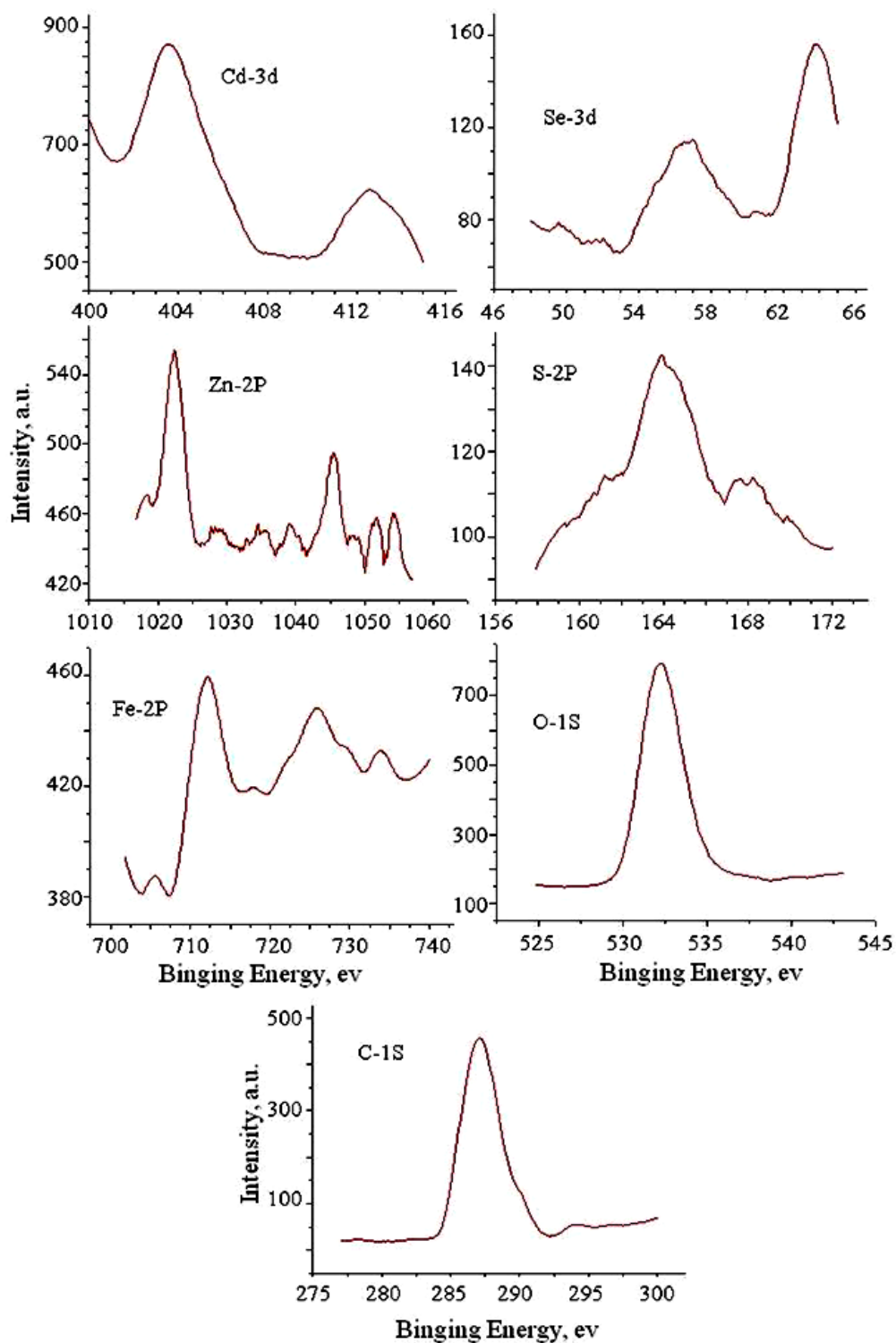


Figure S2. XPS spectra of PUNP showing individual elements in it.

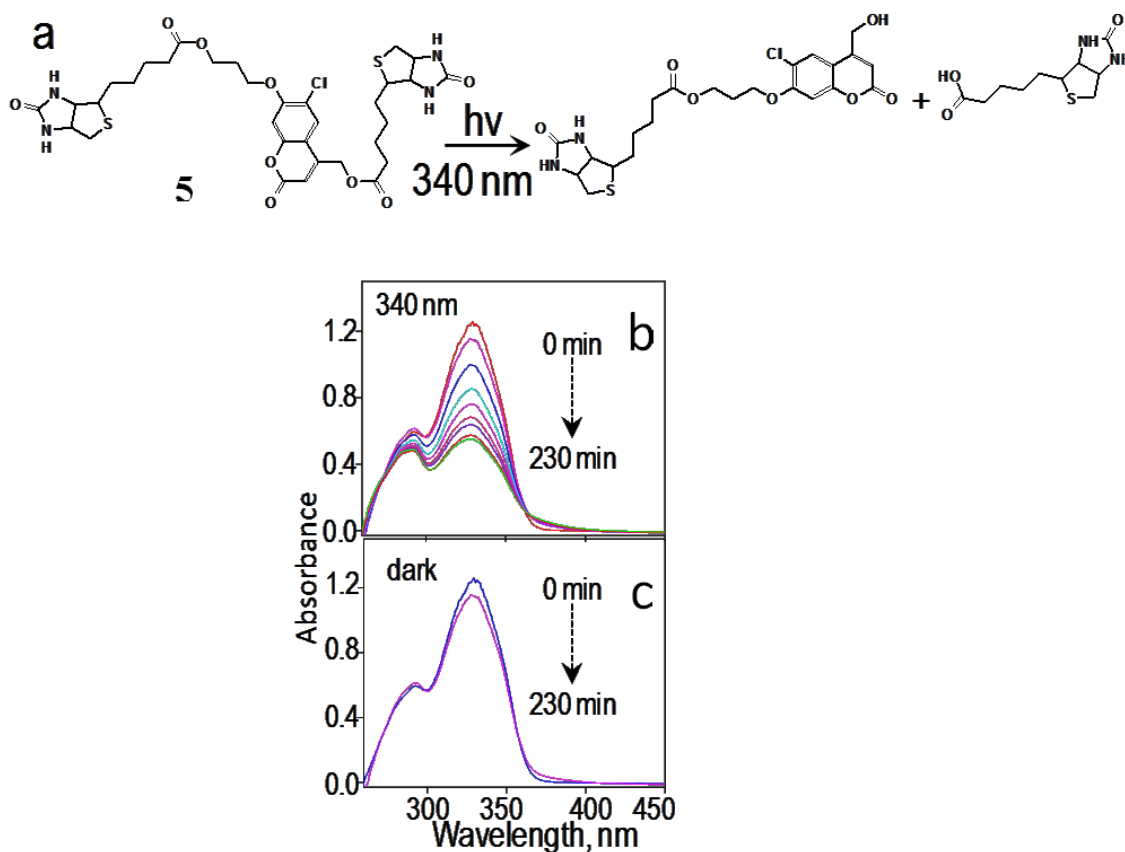


Figure S3. (a) Scheme for photouncaging of **5** under 340 nm light from a Xe lamp, and (b, c) UV-Vis absorption spectra of **5** under (b) illumination at 340 nm and (b) dark.

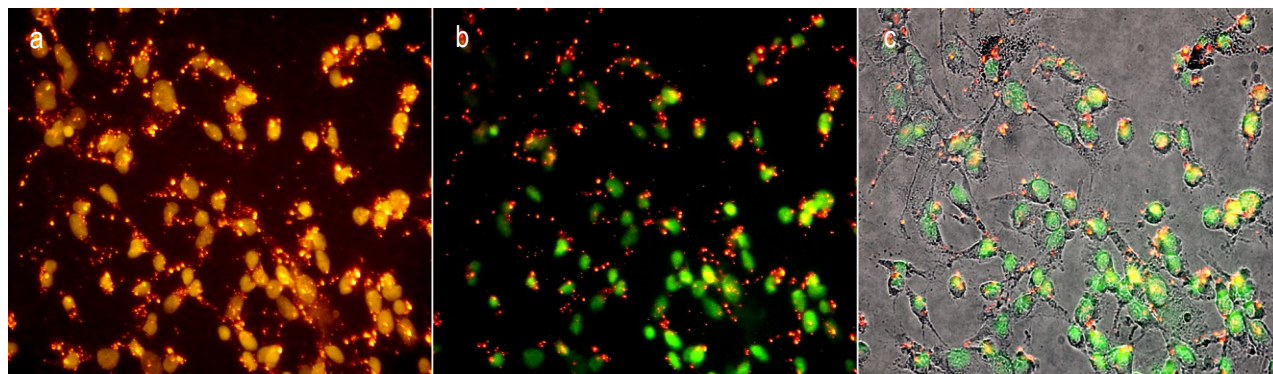


Figure S4. Large area fluorescence image of B16 cells treated with PUNP-allatostatin conjugate and Syto 21 dye: (a) image collected under 400 nm excitation and through a 580 nm long-pass filter, (b) overlay of fluorescence images of PUNP (red) and Syto 21 (green). Here, Syto 21 is excited at 532 nm and its fluorescence is collected through a 550 ± 10 nm band-pass filter, and (c) overlay of 'a' and 'b' with the optical transmission image.

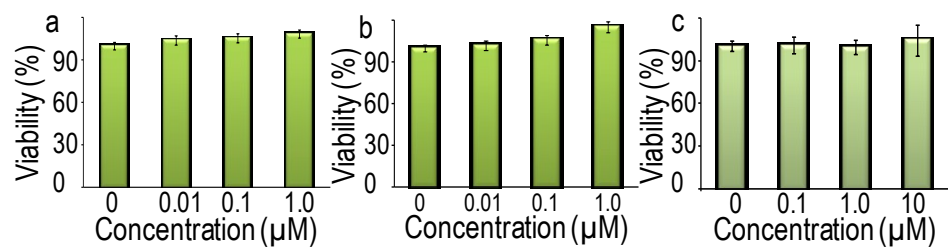


Figure S5. MTT assay histograms for H1650 cells treated with (a) **3**, (b) **5** and (c) the photoproducts of **3**.

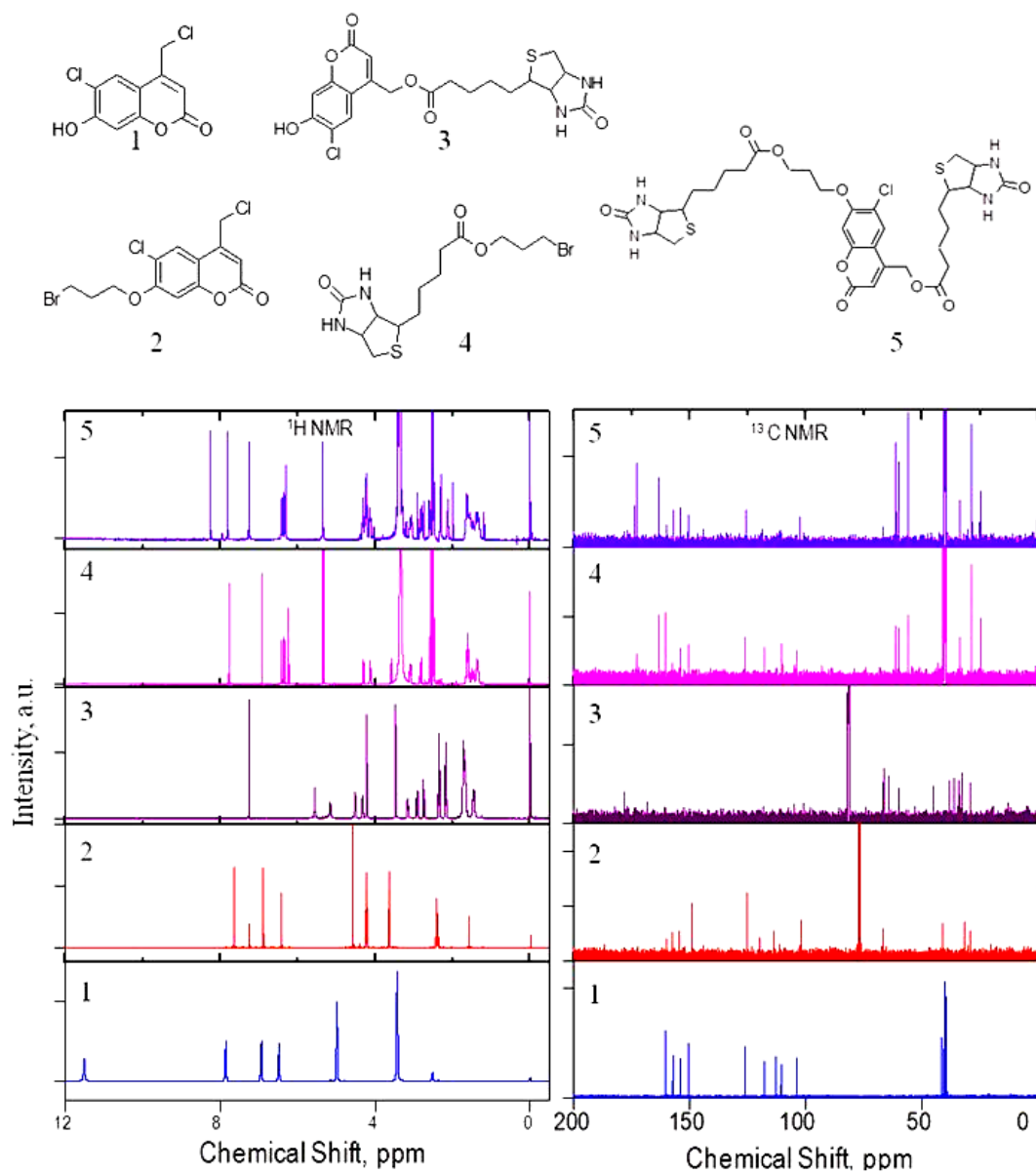


Figure S6. ^1H and ^{13}C NMR spectra of compounds **1-5**.

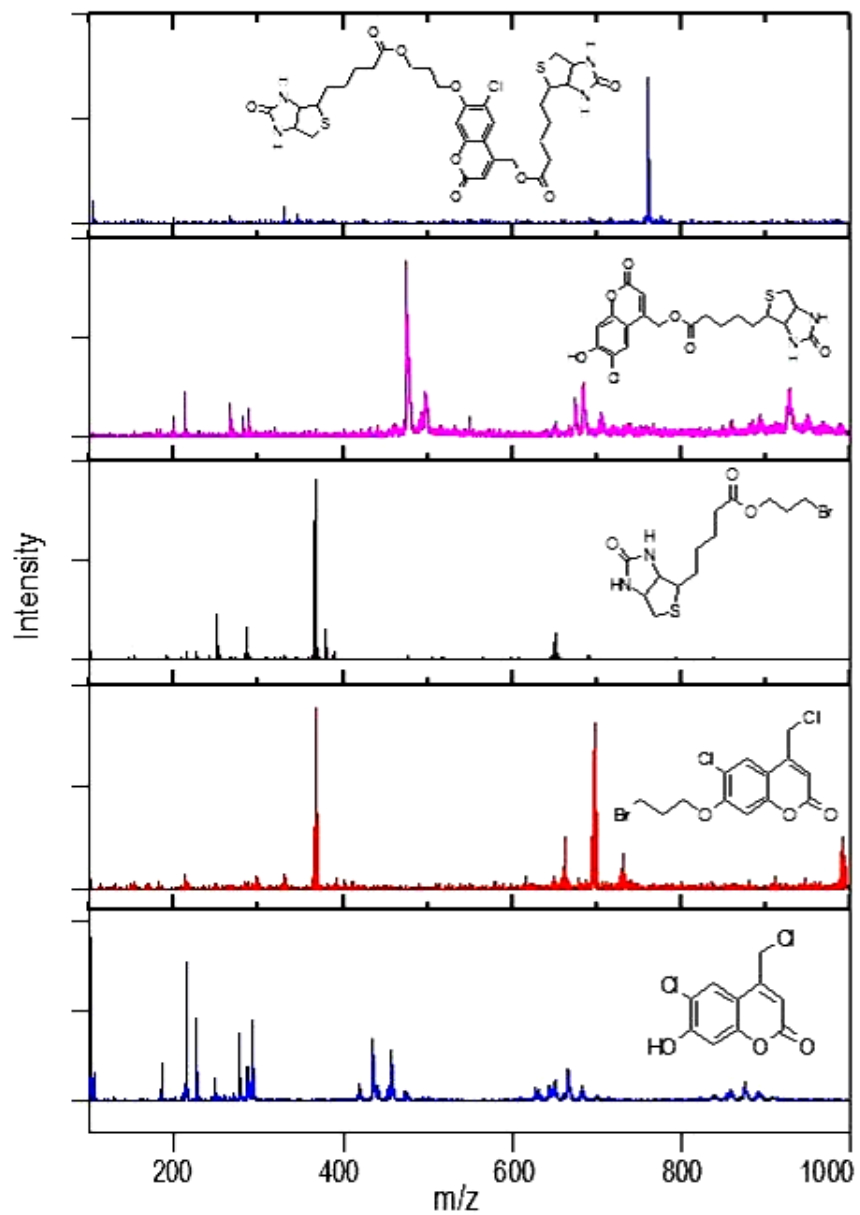


Figure S7. Mass spectra of compounds 1-5.

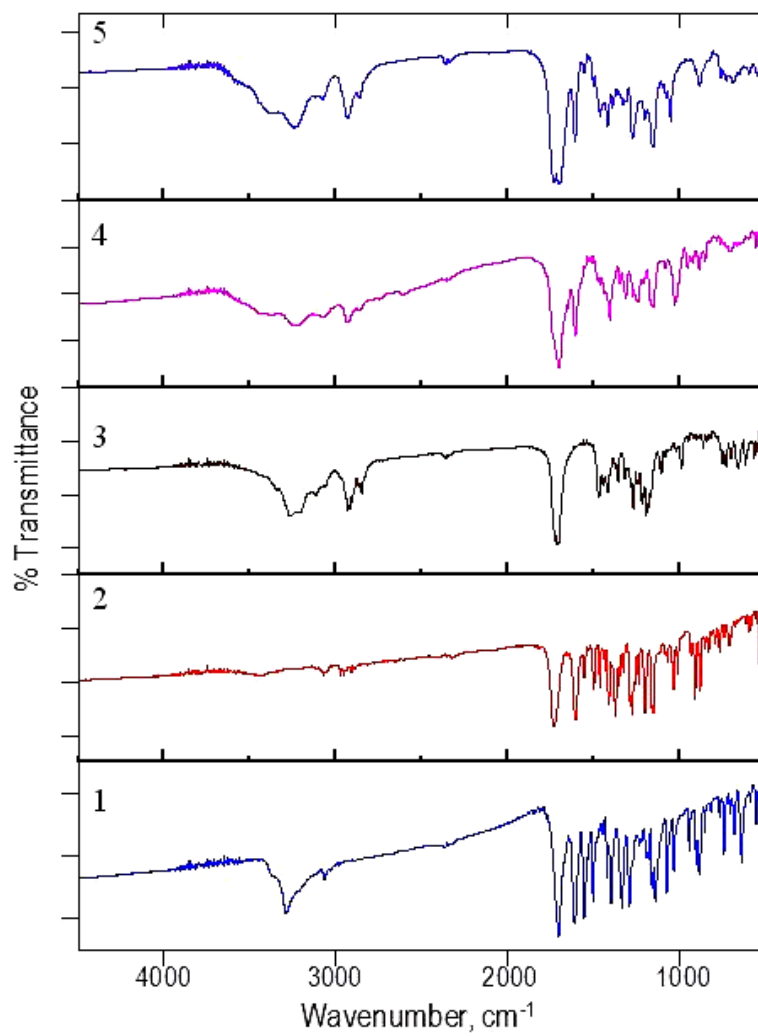


Figure S8. FT-IR spectra of compounds **1-5**.