

## Supporting Information

# Ultra-Small and Metabolizable Near-Infrared Au/Gd Nanoclusters for Targeted FL/MRI Imaging and Cancer Theranostics

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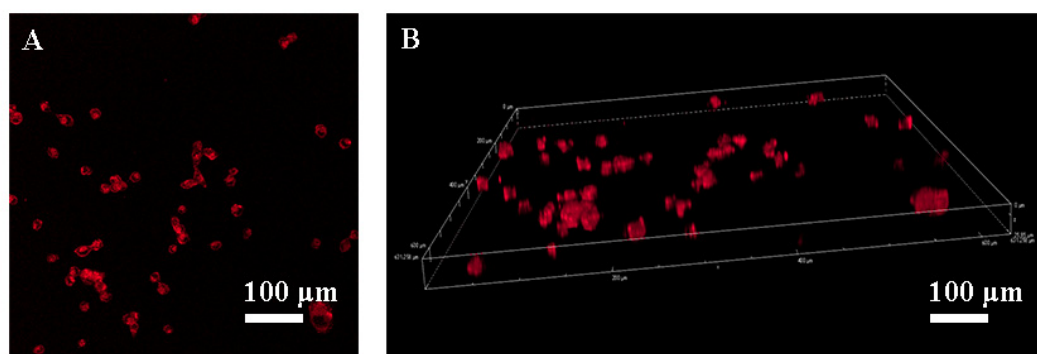
## Supplemental Figures and Tables

**Table S1** Maximum emission wavelength and fluorescence quantum yield of Au/Gd@BSA NCs with different mole ratios.

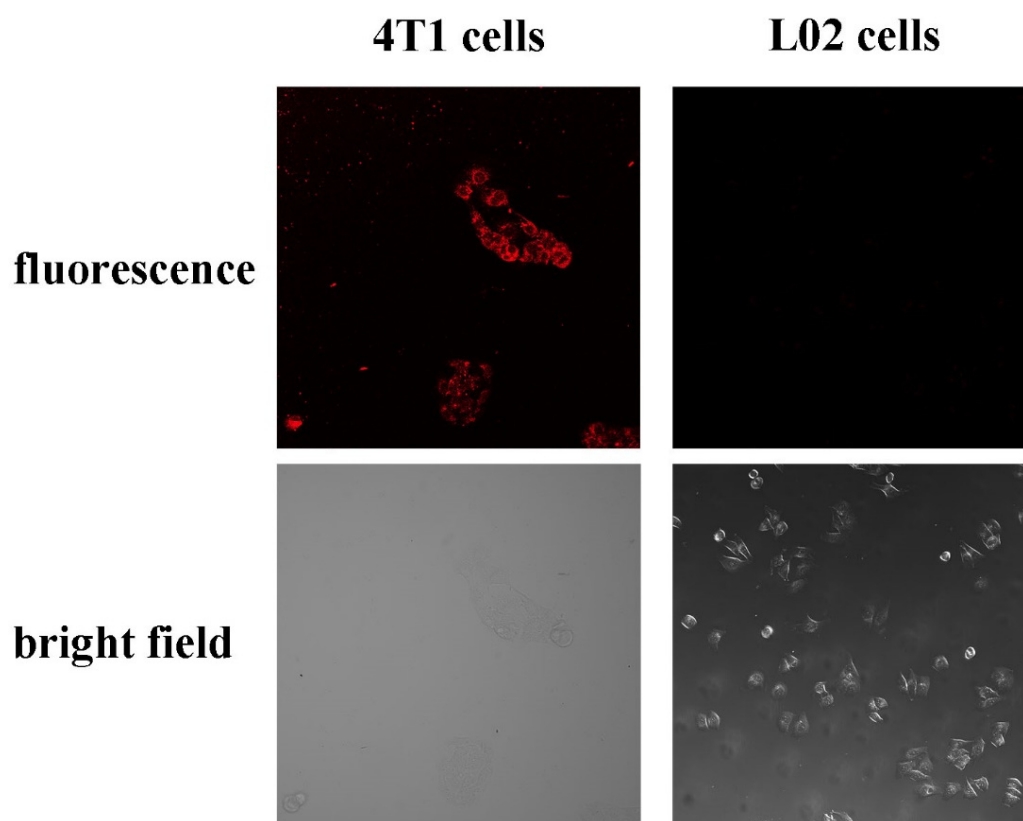
Number	molar ratio	Maximum emission wavelength (nm)	fluorescence quantum yield (%)
a	1:1	660	3.8%
b	1:1.5	690	4.4%
c	1:2	670	4.1%

**Table S2** EDS of Au/Gd@FA NCs.

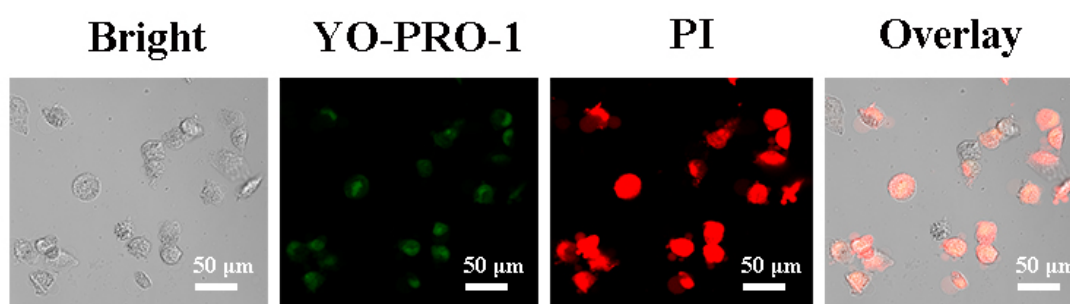
Element	wt%	At%
C	45.64	52.11
N	22.73	22.26
O	29.74	25.49
Au	1.72	0.12
Gd	0.16	0.02



**Figure S1.** 3D confocal near-infrared fluorescence images of 4T1 cells after 6 h treatment with Au/Gd@FA NCs (60 μg/mL) at 37°C. (A) confocal near-infrared fluorescence images. (B) 3D confocal near-infrared fluorescence images.



**Figure S2.** Confocal near-infrared fluorescence images of 4T1 cells and L02 cells after 6 h treatment with Au/Gd@FA NCs (60  $\mu\text{g}/\text{mL}$ ) at 37°C.



**Figure S3.** Confocal fluorescence images of 4T1 cells treatment with Au/Gd@FA NCs (60  $\mu\text{g}/\text{mL}$ ) at 37°C for 8h under 660 nm ( $1.2 \text{ W}/\text{cm}^2$ ) laser irradiation, which detected by YO-PRO-1/PI apoptosis kit.