

Supporting Information

Biocompatible Gd^{III}-Functionalized Fluorescent Gold Nanoclusters for Optical and Magnetic Resonance Imaging

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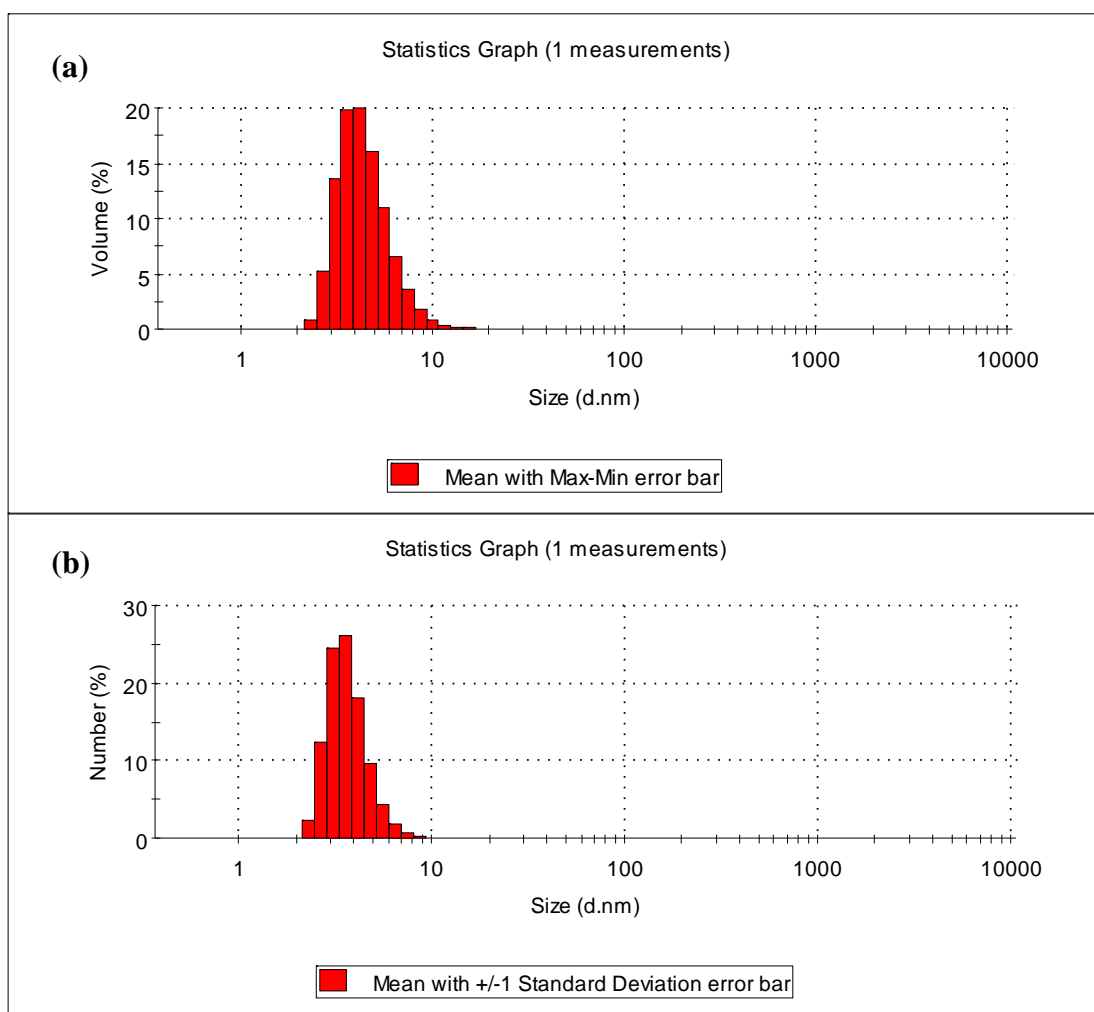


Figure S1. Hydrodynamic diameter distribution of (a) Au_{NC}@BSA-(Gd-DTPA)_n and (b) Au_{NC}@BSA.

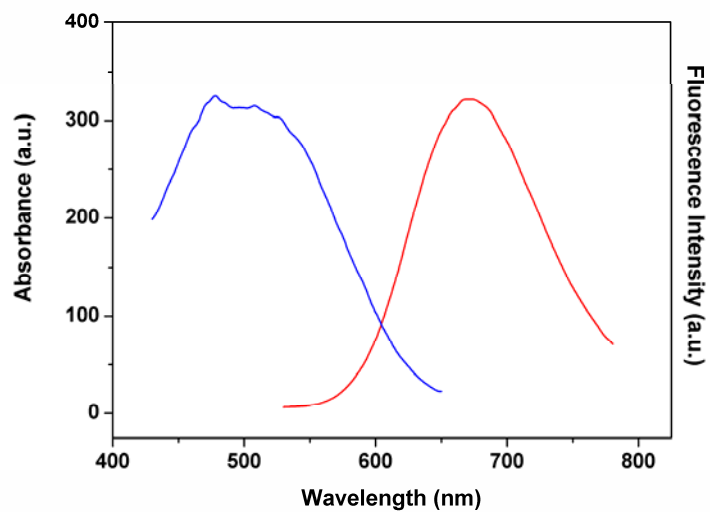


Figure S2. Optical absorption (blue) and photoemission (red, $\lambda_{\text{ex}} = 470$ nm) spectra of $\text{Au}_{\text{NC}}@$ BSA suspension.

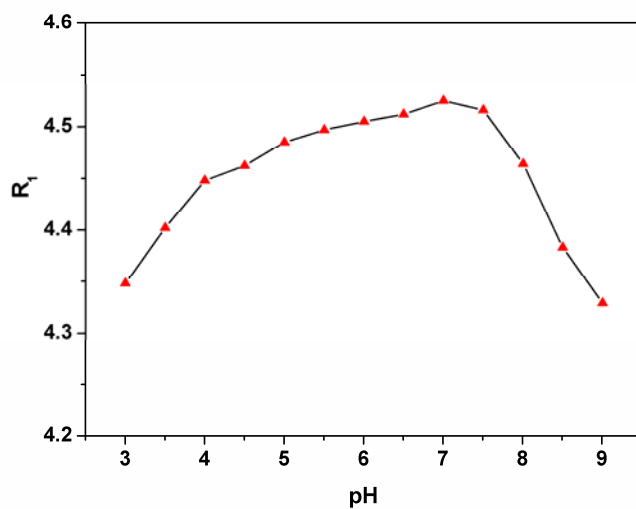


Figure S3. The R_1 values of 0.1 mM $\text{Au}_{\text{NC}}@$ BSA-(Gd-DTPA)_n suspension as function of pH over the range 3~9.

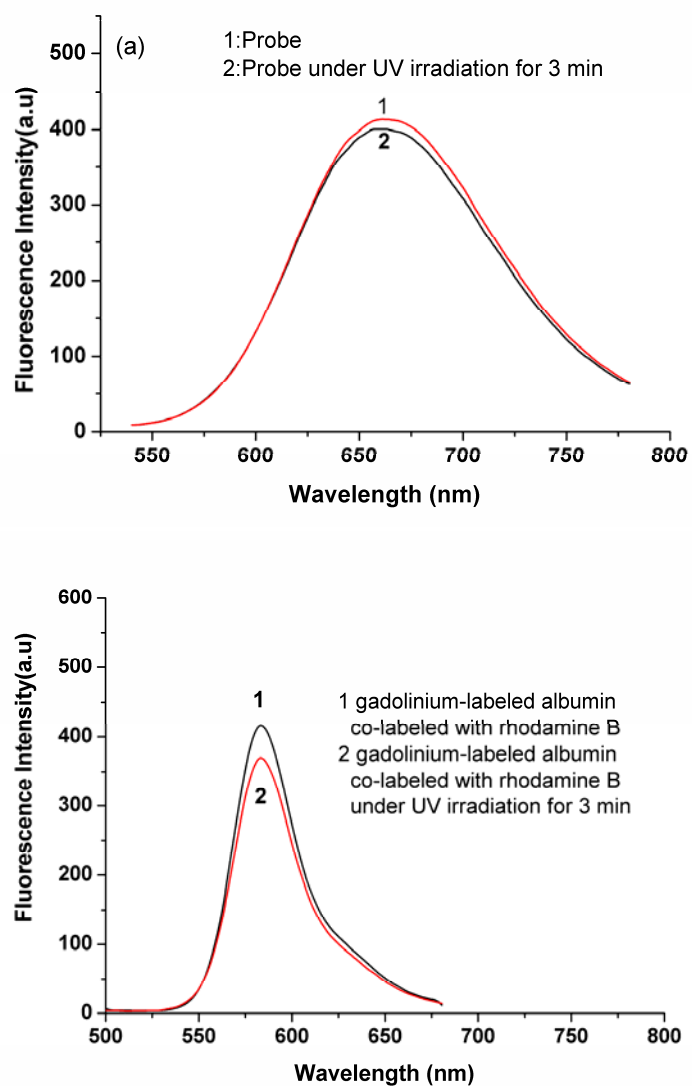


Figure S4. Fluorescence spectra of (a) $\text{Au}_{\text{NC}}@BSA-(\text{Gd-DTPA})_n$ probe and (b) commercially-available gadolinium-labeled albumin co-labeled with rhodamine B before and after exposure to UV irradiation.

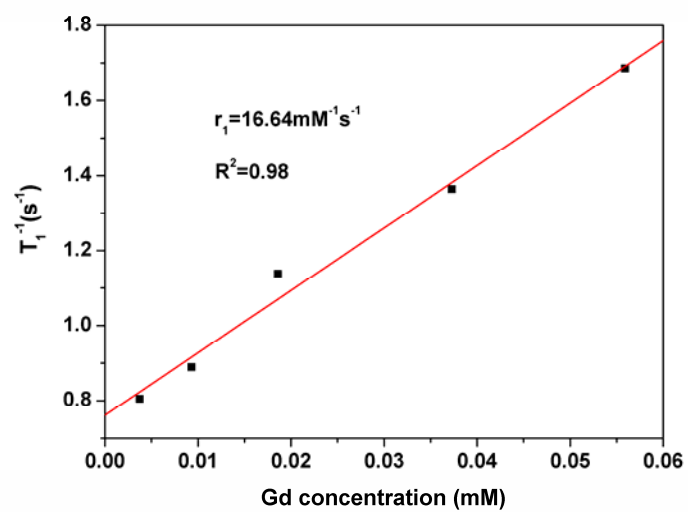


Figure S5. The linear relationship between T₁ relaxation rates (1/T₁) and Gd³⁺ concentrations for gadolinium-labeled albumin co-labeled with rhodamine B.