

Supporting information

for

Rational design of albumin theranostic conjugates for gold nanoparticles anticancer drugs: where the seed meets the soil?

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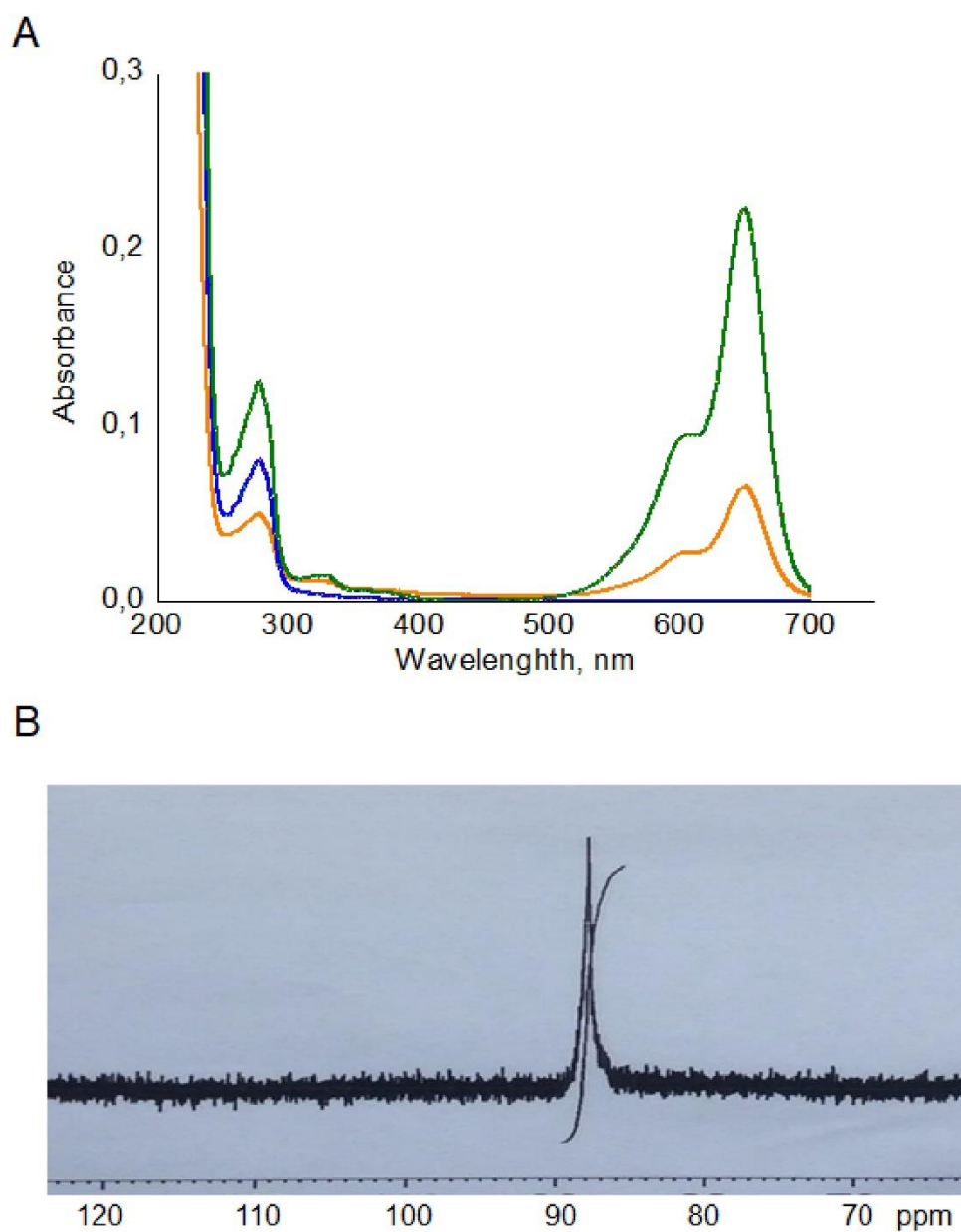


Figure. S1. Characterization of multifunctional human serum albumin-therapeutic conjugate HSA-Cy5-HcyTFAc-B₁₂H₁₂. A: UV-vis spectra of HSA homocystamides in PBS buffer, pH 7.4. HSA – blue; HSA-Cy5-HcyTFAc – green, HSA-Cy5-HcyTFAc-B₁₂H₁₂ – orange. B: ¹⁹F NMR spectrum (at 282.4 MHz) of HSA-Cy5-HcyTFAc-B₁₂H₁₂ conjugate (0.6 mM) in PBS buffer (pH 7.4, to provide deuterium lock, D₂O was added to 20% of the total volume) at 37°C. The chemical shifts are referred to the resonance of C₆F₆ at 0.0 ppm.

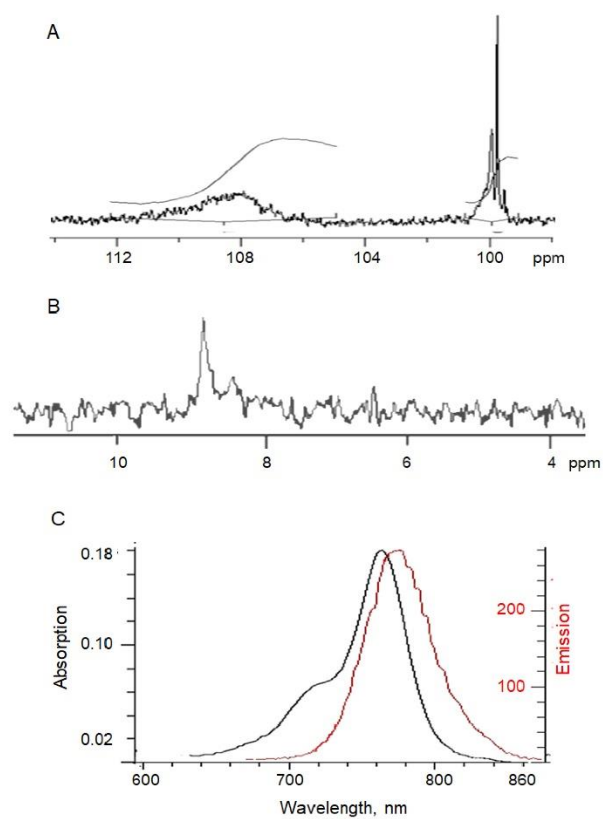


Figure S2. Characterization of multifunctional human serum albumin-therapeutic conjugate PFT-Hcy-HSA-Cy7-pTFT. A: ^{19}F NMR spectrum (at 282.4 MHz) of PFT-Hcy-HSA-Cy7-pTFT conjugate (0.6 mM) in PBS buffer (pH 7.4, to provide deuterium lock, D_2O was added to 20% of the total volume) at 37°C. The chemical shifts are referred to the resonance of C_6F_6 at 0.0 ppm. B: ^{31}P NMR spectrum (at 121 MHz) of PFT-Hcy-HSA-Cy7-pTFT conjugate (0.6 mM) in D_2O at 37°C. C: Absorption (black) and Emission (red) spectra of PFT-Hcy-HSA-Cy7-pTFT (10 μM) recorded in PBS buffer (pH 7.4) at 37°C.