

Supplementary Materials

Aptamer-Functionalized Gold Nanoparticles for Drug Delivery to Gynecological Carcinoma Cells

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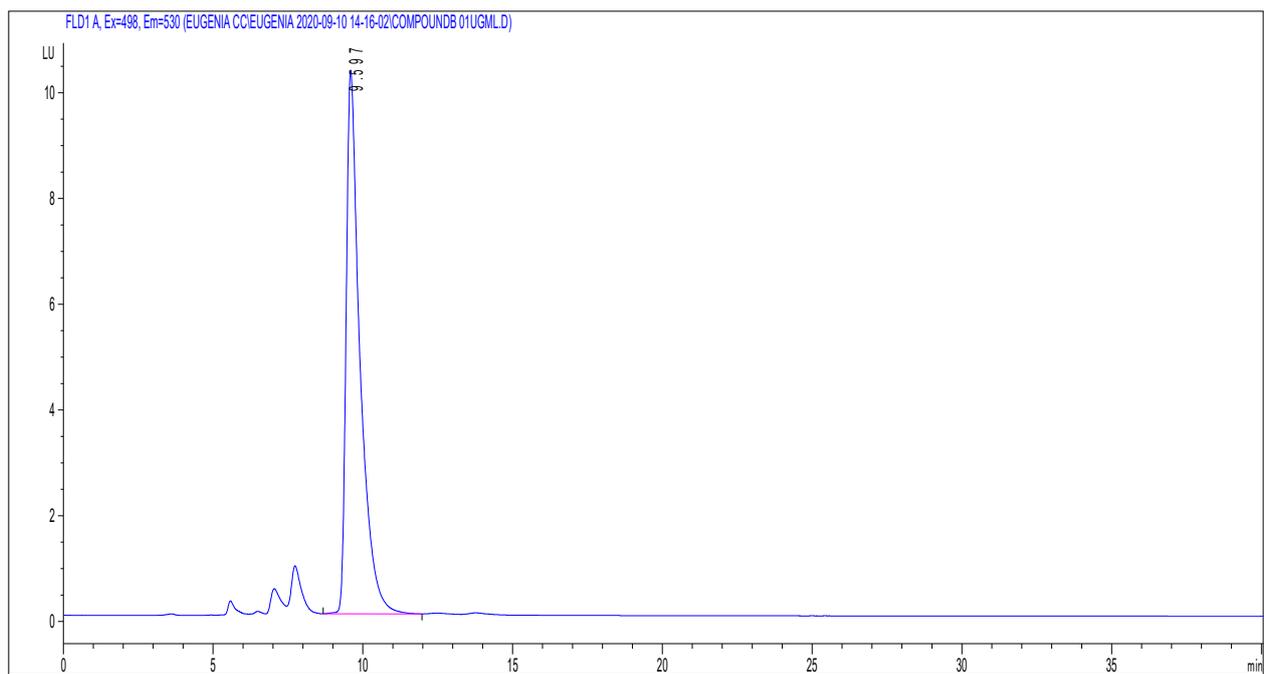


Figure S1. Chromatogram of Cs at 100 ng/mL.

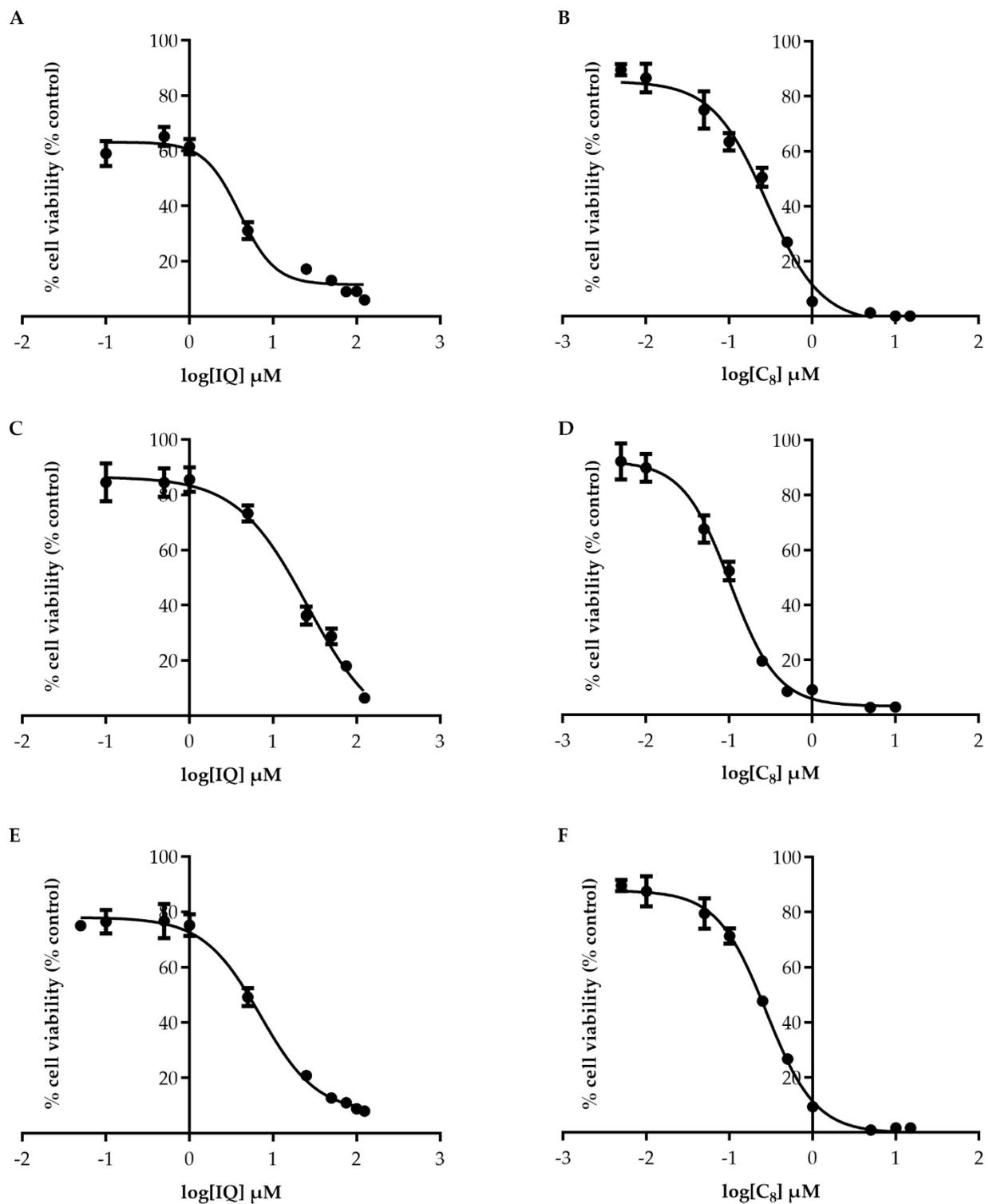


Figure S2. Dose-response data of cell viability measured by MTT assay after incubation of Imiquimod or C₈; (A) HeLa, (C) HEC-1-A and (E) NHDF cells treated with Imiquimod (B) HeLa, (D) HEC-1-A and (F) NHDF cells treated with C₈ for 3 days.

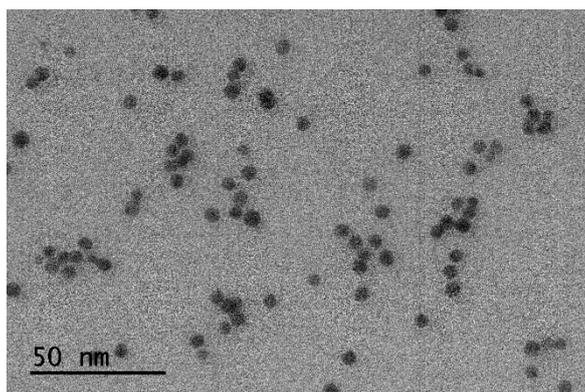


Figure S3. TEM image of citrate gold nanoparticles.

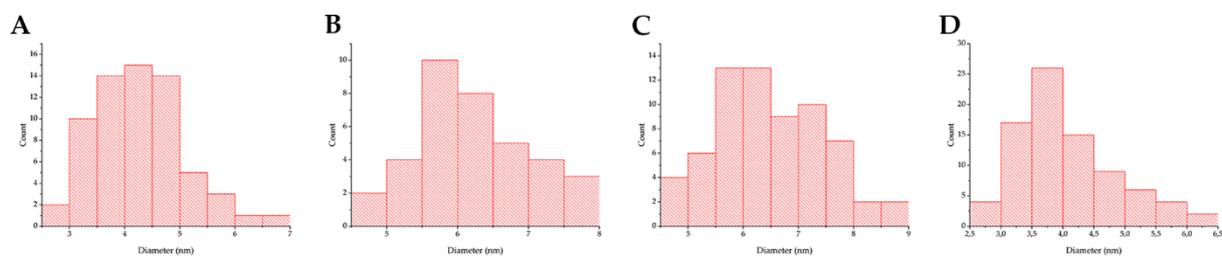


Figure S4. Histograms of the nanoparticles size determined in TEM images of (A) citrate gold nanoparticles, (B) AS141-AuNPs, (C) AS141-AuNPs with IQ and (D) AS141-AuNPs with C₈.

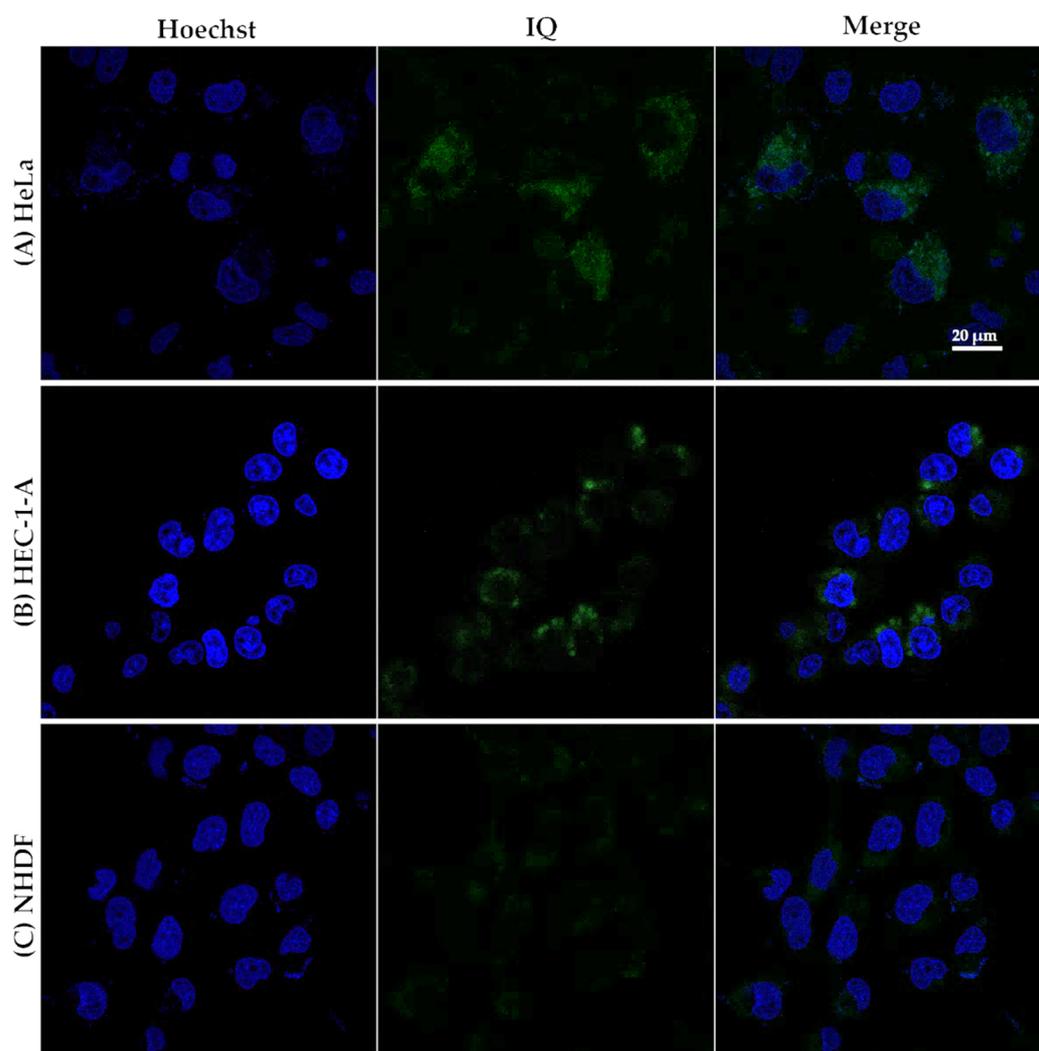


Figure S5. Confocal fluorescence images after IQ incubation; (A) HeLa, (B) HEC-1-A and (C) NHDF cell lines incubated with IQ (green) for 24 h at 37 °C. Cell nuclei are stained with Hoechst 33342 (blue). Scale bar: 20 μm.

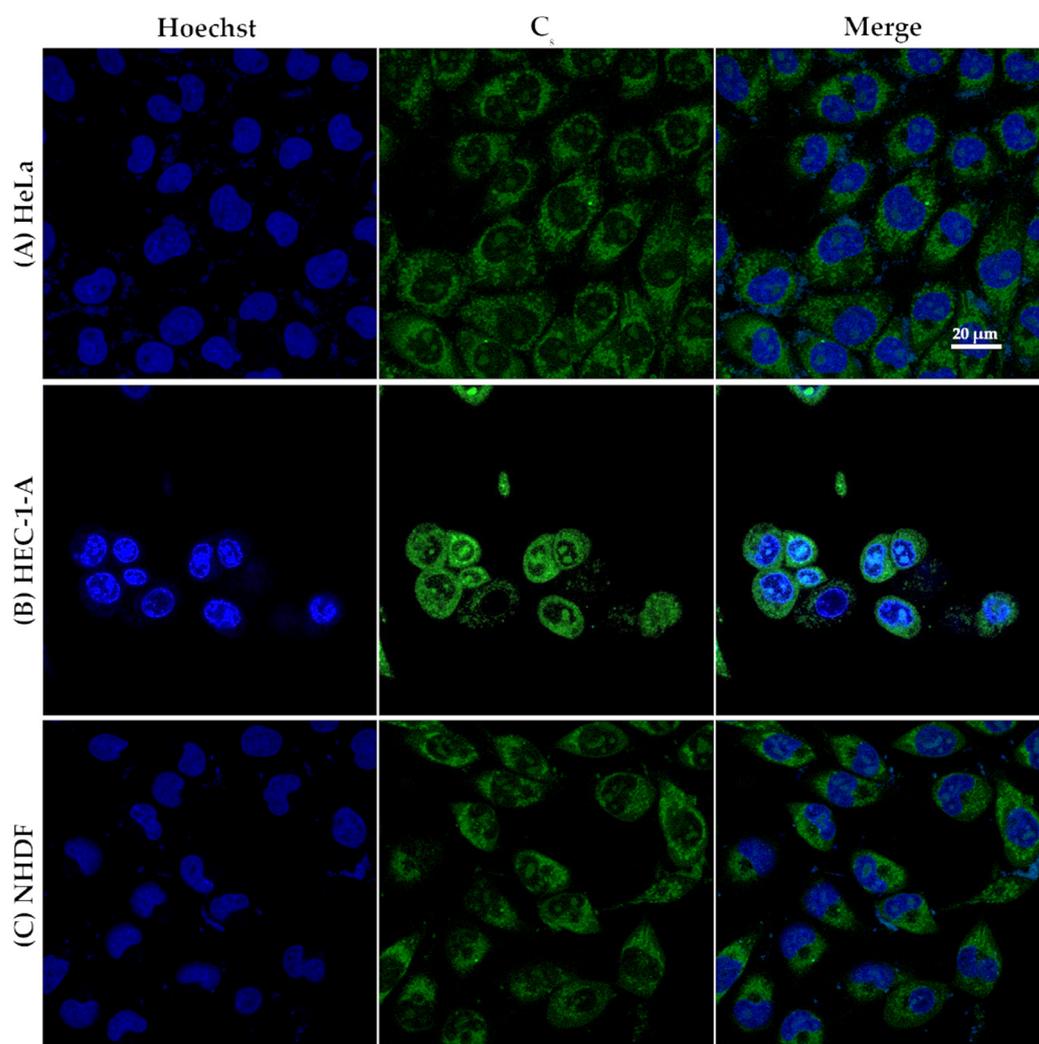


Figure S6. Confocal fluorescence images after C₈ incubation; (A) HeLa, (B) HEC-1-A and (C) NHDF cell lines incubated with C₈ (green) for 24 h at 37 °C. Cell nuclei are stained with Hoechst 33342 (blue). Scale bar: 20 μm.

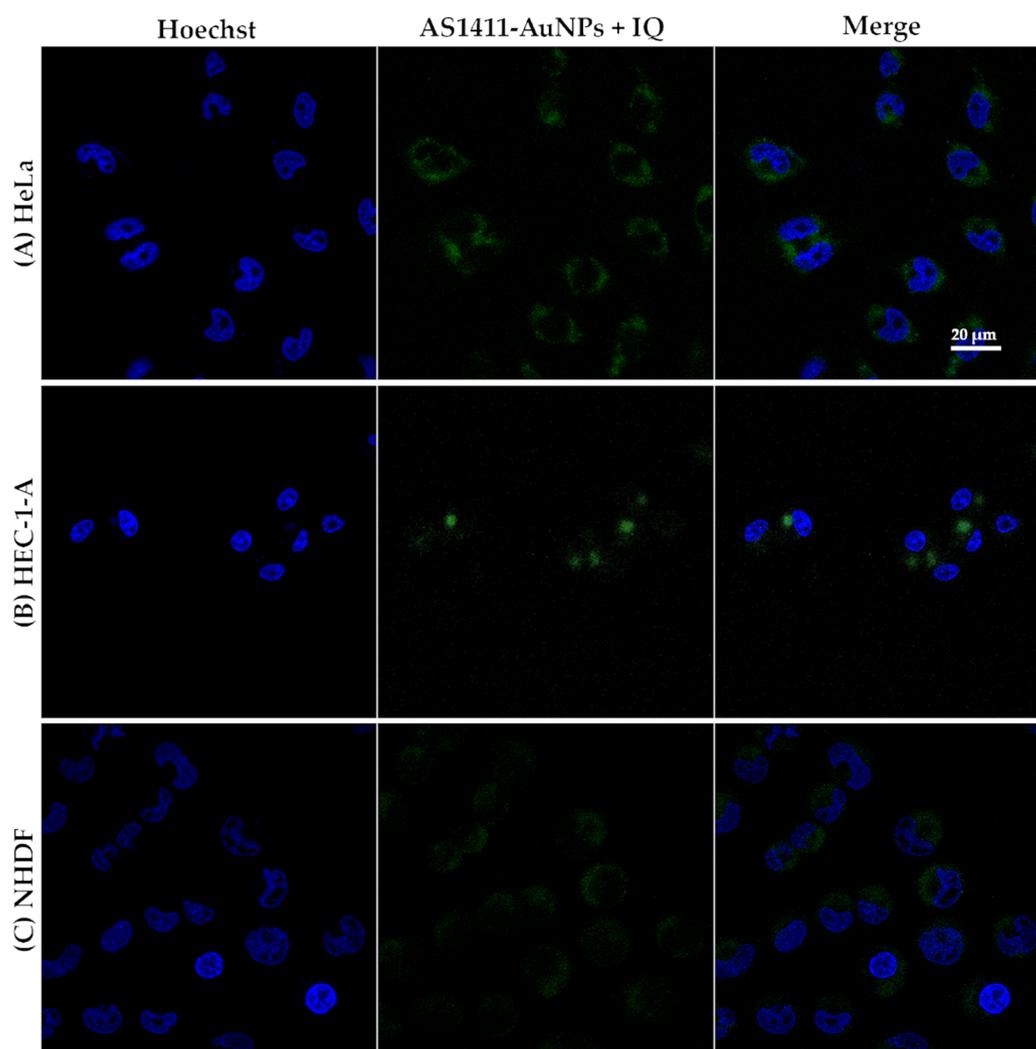


Figure S7. Confocal fluorescence images after AS1411-AuNPs with IQ incubation; (A) HeLa, (B) HEC-1-A and (C) NHDF cell lines incubated with AS1411-AuNPs with IQ (green) for 24 h at 37 °C and, then, medium was replaced by new one without treatment. Cell nuclei are stained with Hoechst 33342 (blue). Scale bar: 20 μm.

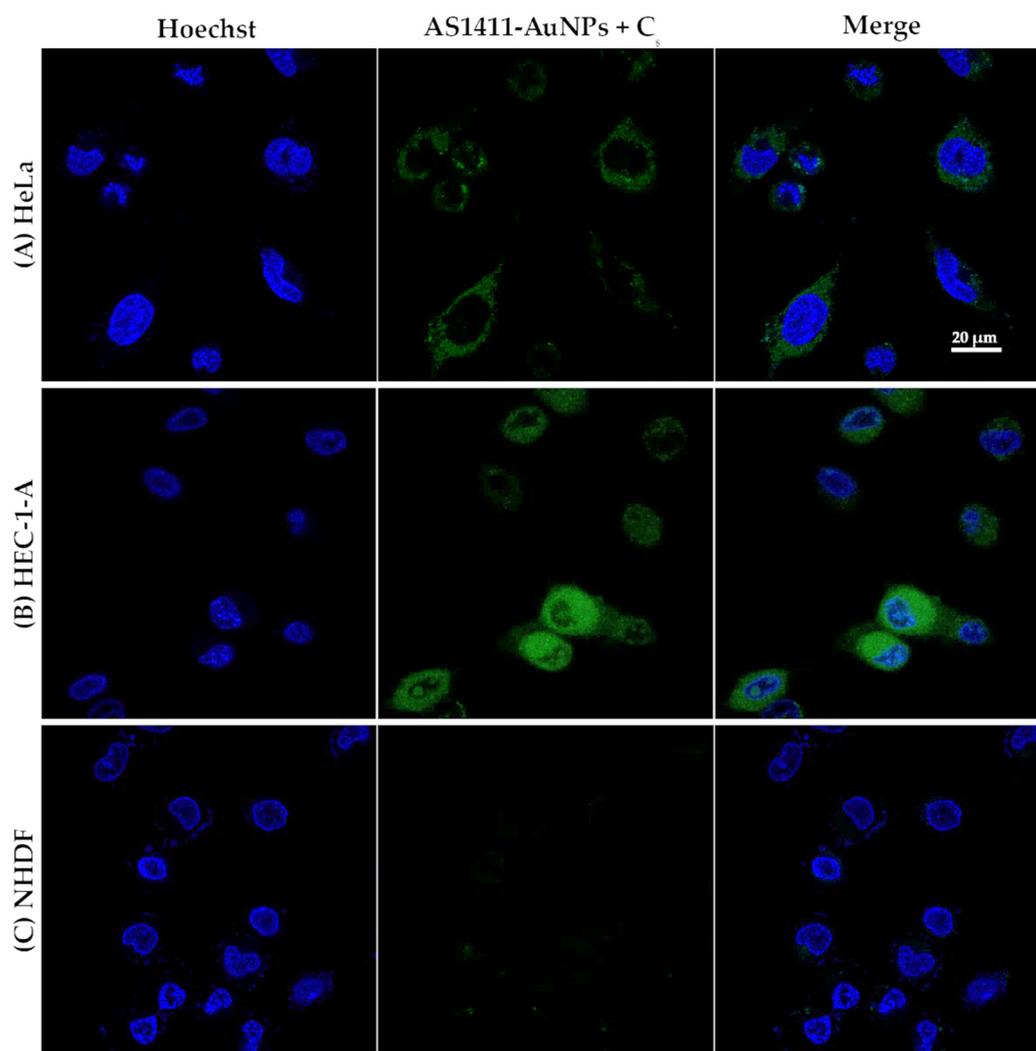


Figure S8. Confocal fluorescence images after AS1411-AuNPs with Cs incubation; (A) HeLa, (B) HEC-1-A and (C) NHDF cell lines incubated with AS1411-AuNPs with Cs (green) for 24 h at 37 °C and, then, medium was replaced by new one without treatment. Cell nuclei are stained with Hoechst 33342 (blue). Scale bar: 20 μm.

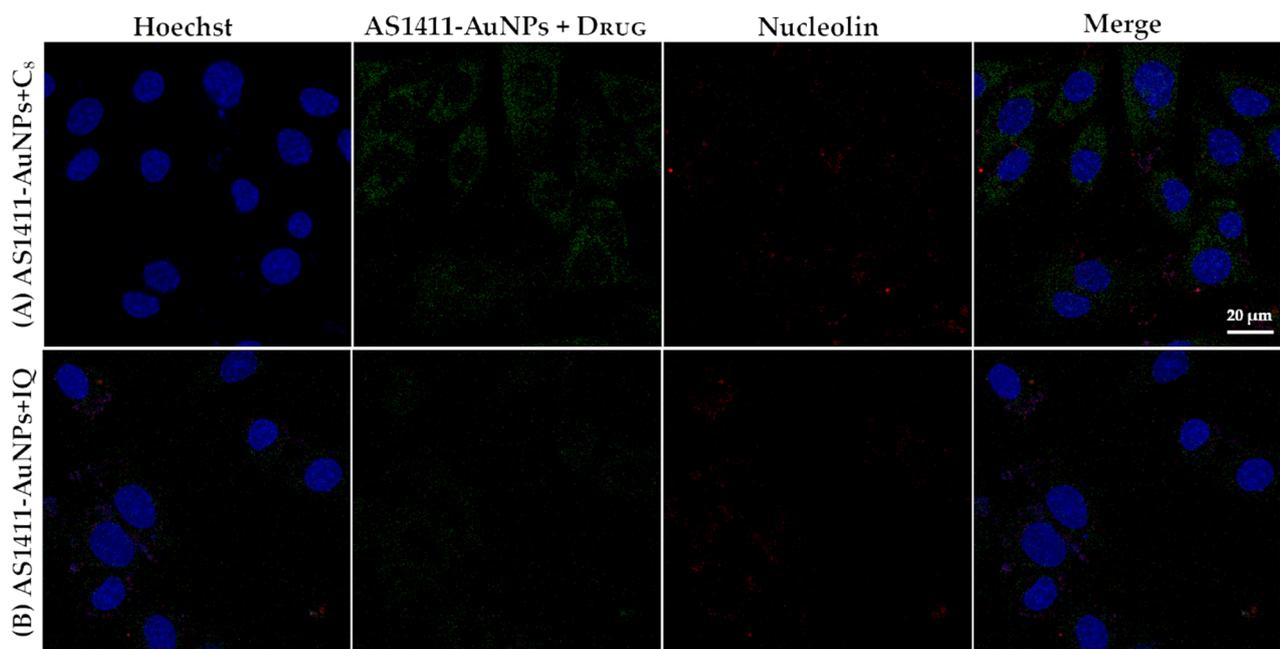


Figure S9. Confocal fluorescence images of NHDF cells incubated with (A) AS1411-gold nanoparticles with Cs or (B) AS1411-gold nanoparticles with IQ for 15 min at 37 °C. Nucleolin is stained with AlexaFluor 647® (red), Cs and IQ emits green fluorescence. Cell nuclei are stained with Hoechst 33342 (blue). Scale bar: 20 μm.