## Supplementary Information: Biologically Inspired Stealth Peptide-Capped Gold Nanoparticles

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(b) c[RGDfE(SGG-KEKEKE-PPPPC-Am)]





(c) c[RDGfE(SGG-KEKEKE-PPPPC-Am)]





**Figure S1.** HPLC (top) and MALDI (bottom) data for synthesized peptide sequences. (a) EKEKEKE-PPPPC-Am (b) c[RGDfE(SGG-KEKEKE-PPPPC-Am)] (c) c[RDGfE(SGG-KEKEKE-PPPPC-Am)]



**Figure S2.** UV-Vis spectra for stability tests performed in PBS, 1 mg/mL fibrinogen, 1 mg/mL lysozyme, and 20% (wt) NaCl. Spectra were all normalized to have a maximum absorbance at 1 for comparison. Blanks for each sample were composed of the stability solution being evaluated, i.e. PBS, 1 mg/mL fibrinogen, etc.



**Figure S3.** UV-Vis spectra for EK-GNPs (left) and Cit-GNPs (right) in PBS/QW and undiluted human serum after 24 hours. Serum samples were run with a serum blank. Samples with serum contain some noise due to interference from proteins in the serum solution.



**Figure S4.** UV-Vis spectra for Cit-GNPs, EK-GNPs, cRGD-GNPs, and cRDG-GNPs in PBS and cell culture medium DMEM supplemented with 10% FBS and 1% PS after 48 hours.



Figure S5. Alamar Blue cytotoxicity assay of BAEC (black) and RAW 264.7 (white) cells exposed to varying concentrations of (a) cRGD-GNPs and (b) cRDG-GNPs for 24 hours. Each data point represents an average value  $\pm$  standard deviation from three independent measurements.