

Supporting Information

Genomic DNA Interactions Mechanize Peptidotoxin-mediated Anti-cancer

Nanotherapy

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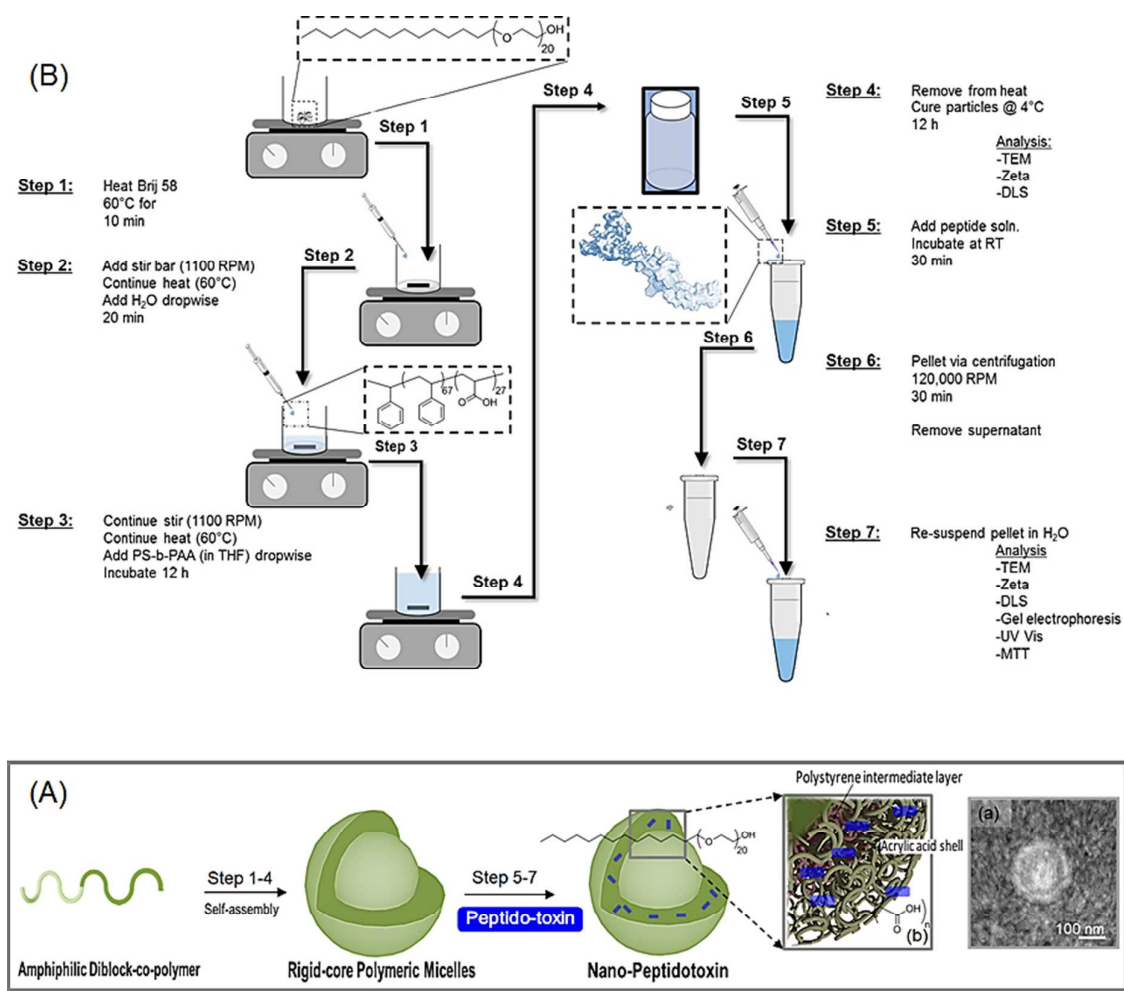
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Scheme S1. Schematic representation of Nano-peptidotoxin synthesis from self-assembly of amphiphilic diblock-co-polymer. (A) A representative transmission electron microscopy (TEM) image of a particle; (B) Stepwise formation of Nano-peptidotoxin and the check points depicting the detailed protocol for peptide insertion and physico-chemical characterization for confirming the formation of Nano-peptidotoxin.

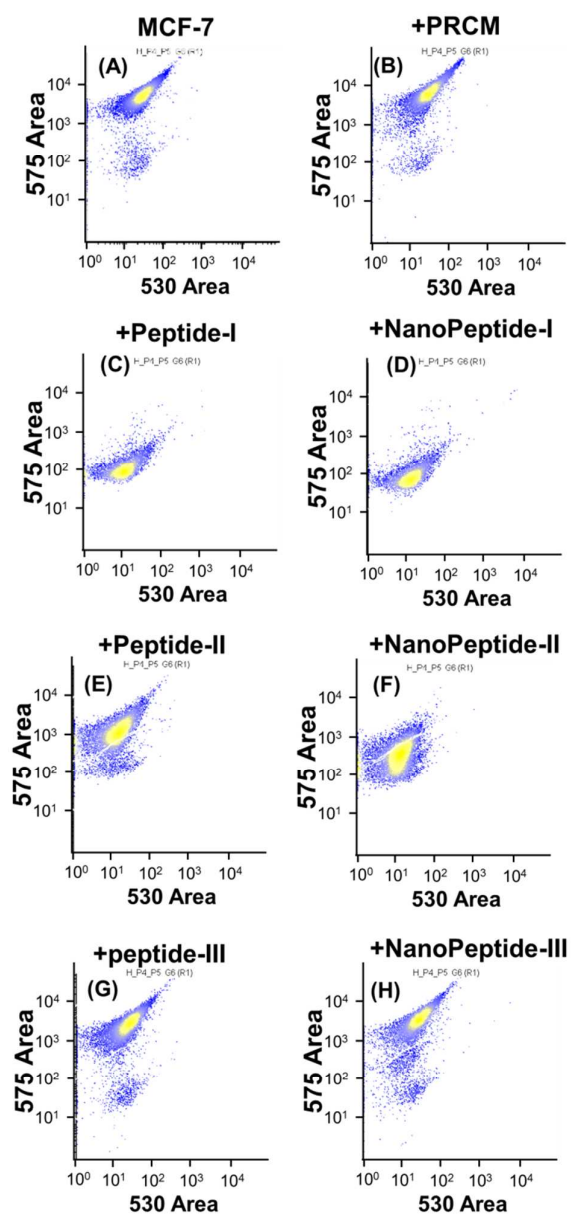


Figure S2. Genomic DNA interaction studies. PI intercalation modulated by DNA-peptide interactions after incubation of MCF-7 cells with Peptide-I, Peptide-II and CtrPT and their nanoforms for 4h at ambient culture condition. Scattering patterns for shift in scattering pattern of cell population treated with Peptide-I, Peptide-II, NanoPeptide-I and Nano-CtrPT as yellow population with low PI intensity. Blue cell population represents cells with high PI intensity.