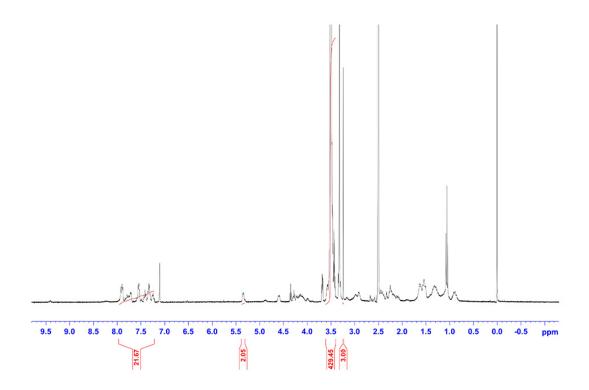
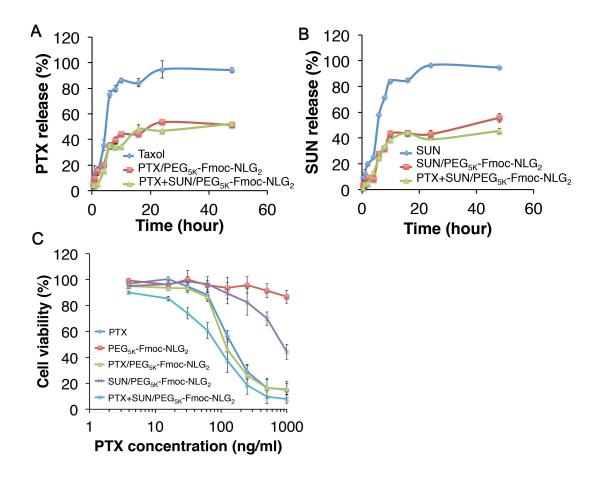
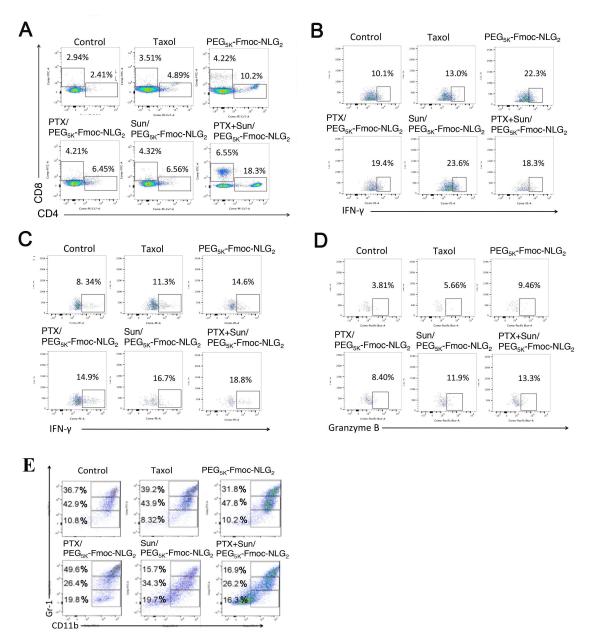
Supplementary information



Supplementary Fig. 1. 1 H NMR spectra of PEG_{5K}-Fmoc-NLG₂.



Supplementary Fig. 2. *In vitro* drug release of PTX (A) and Sun (B) from drug loaded PEG_{5k}-Fmoc-NLG₂ micelles. (C) Cytotoxicity of PEG_{5k}-Fmoc-NLG₂ alone, free PTX, PTX/PEG_{5k}-Fmoc-NLG₂ mixed micelles, Sun/ PEG_{5k}-Fmoc-NLG₂ mixed micelles and PTX+Sun/PEG_{5k}-Fmoc-NLG₂ mixed micelles were examined in a 4T1.2 mouse breast cancer cell line. Cells were incubated with various treatments for 3 days and cytotoxicity was determined by MTT assay.



Supplementary Fig. 3. Representative flow cytometry gatings of immune cell subsets in tumor tissues after various treatments. Tumoral T-cell infiltration, including (**A**) CD4⁺ and CD8⁺, (**B**) IFN- γ ⁺CD4⁺ T cells, (**C**) IFN- γ ⁺CD8⁺ T cells and (**D**) granzyme B-positive CD8⁺ T cells, were measured by flow cytometry. (**E**) MDSC subsets (Gr-1^{high}CD11b⁺ granulocytic (G-MDSC) and Gr-1^{int}CD11b⁺ monocytic (M-MDSC)) were also detected by flow cytometry.