Electronic Supplementary Material (ESI) for Polymer Chemistry.

Drug Induced Self-Assembly of Triblock Copolymers into Polymersomes for the Synergistic Dual-Drug Delivery of Platinum drugs and Paclitaxel

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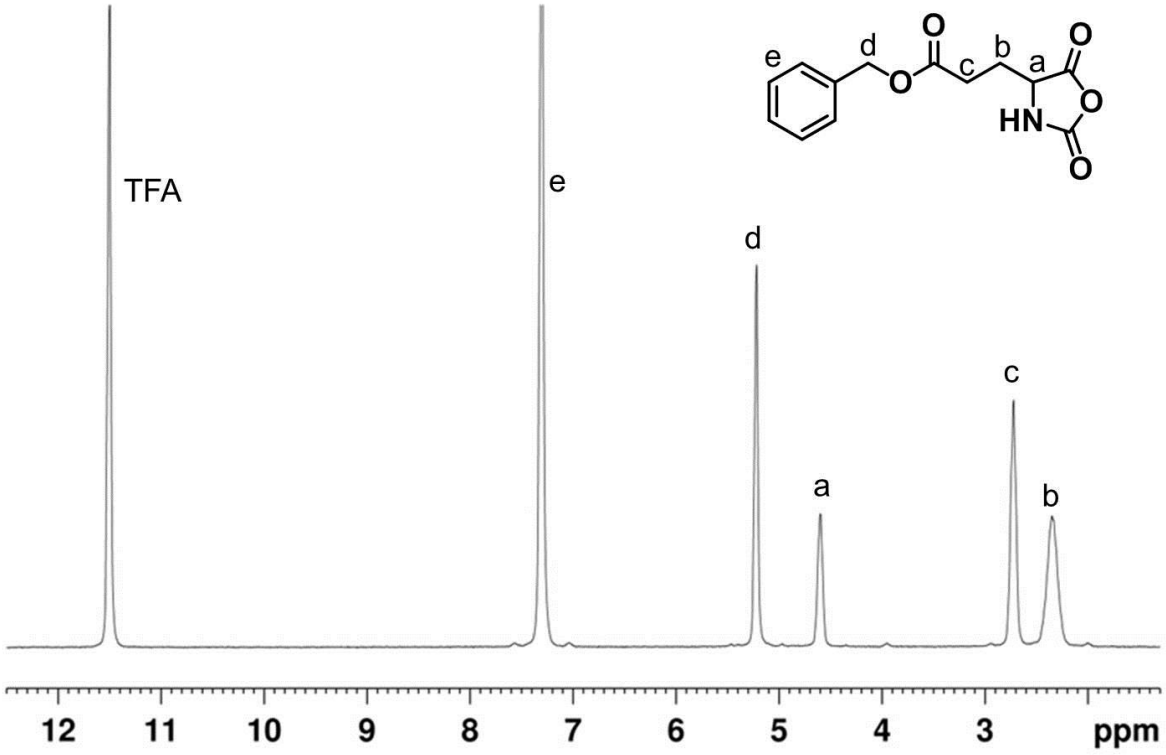


Figure S1. ^{1}H NMR of monomer NCA-BLG in TFA-d, 400MHz

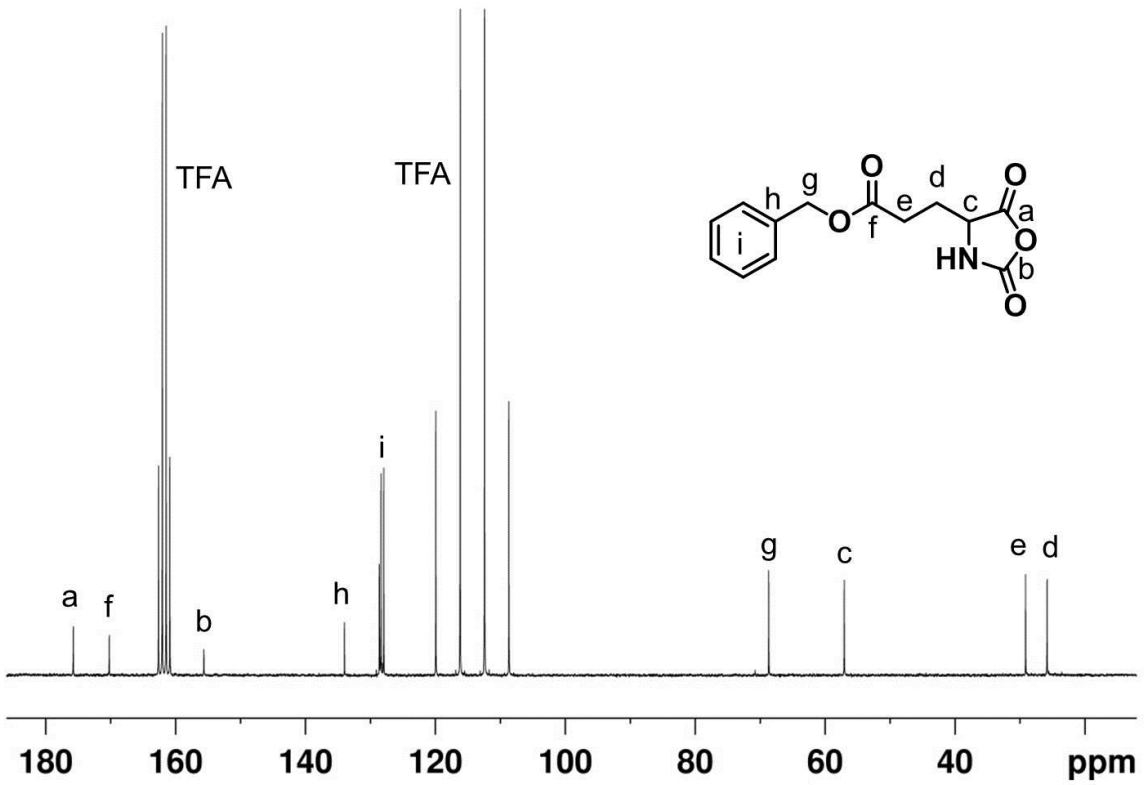


Figure S2. ^{13}C NMR, TFA-d, 100MHz, NCA-BLG

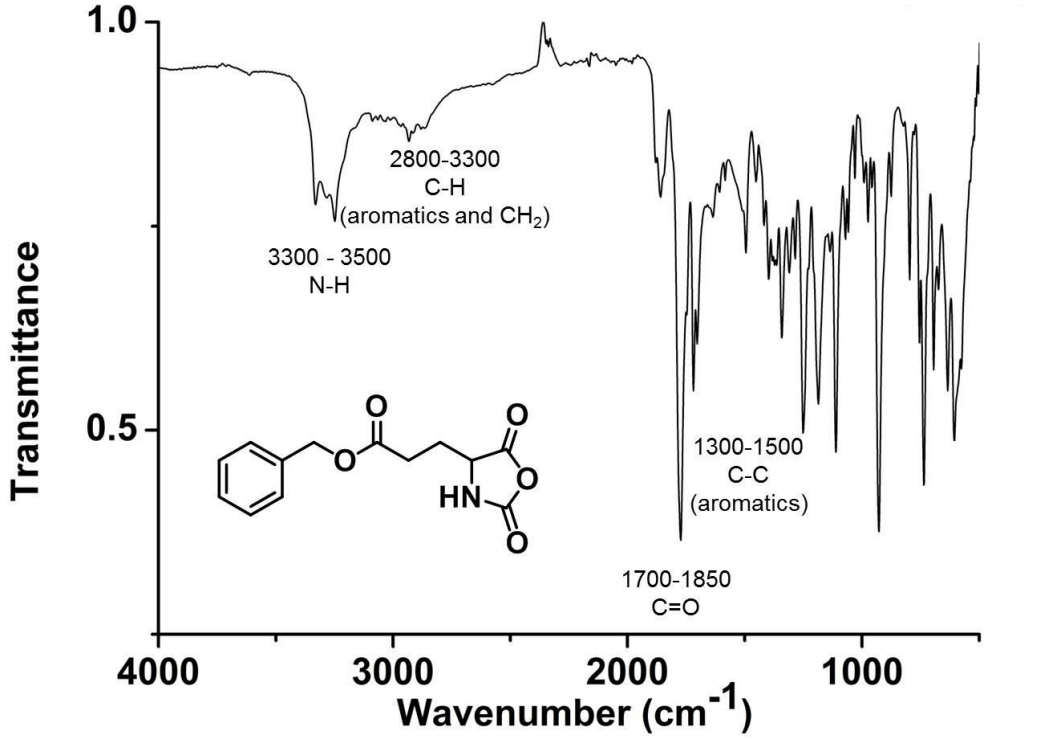


Figure S3. FTIR spectrum of NCA-BLG

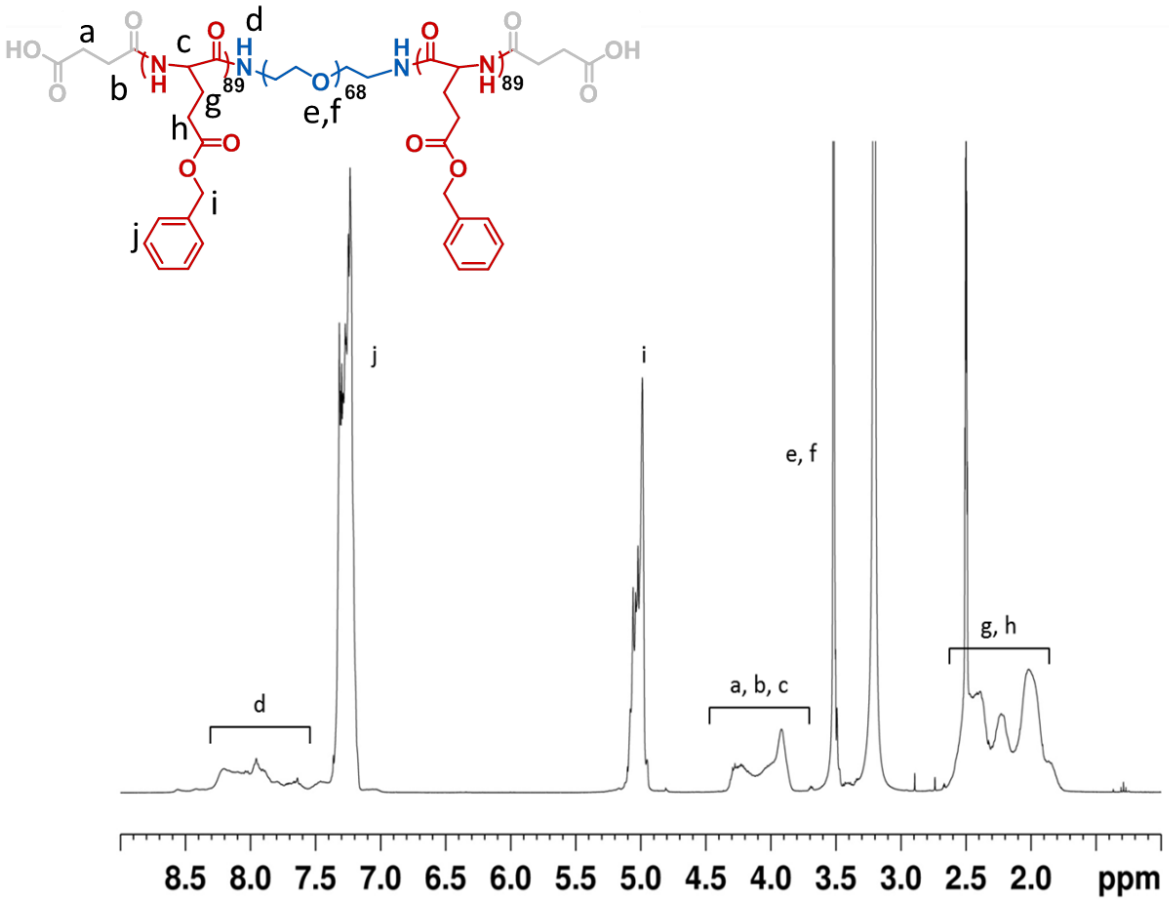


Figure S4. ^{1}H NMR, DMSO-d$_6$, 400MHz, PLGA$_{89}$-*b*-PEG$_{68}$-*b*-PLGA$_{89}$

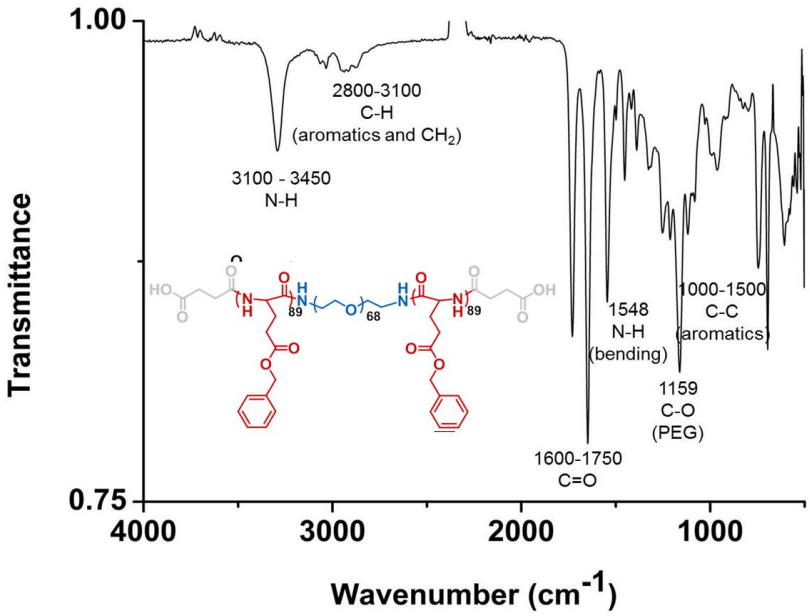


Figure S5. FTIR spectrum of PLGA$_{89}$-*b*-PEG$_{68}$-*b*-PLGA$_{89}$

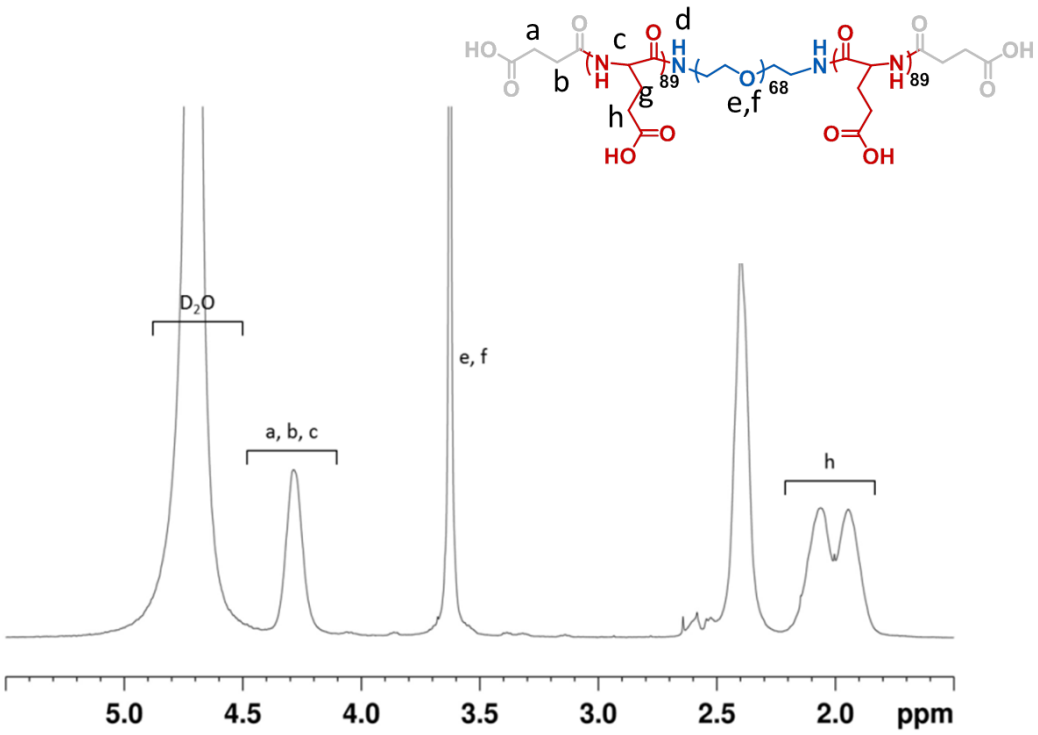


Figure S6 ^{1}H NMR, D_2O, 400MHz, PGA_{89}-*b*-PEG_{68}-*b*-PGA_{89}

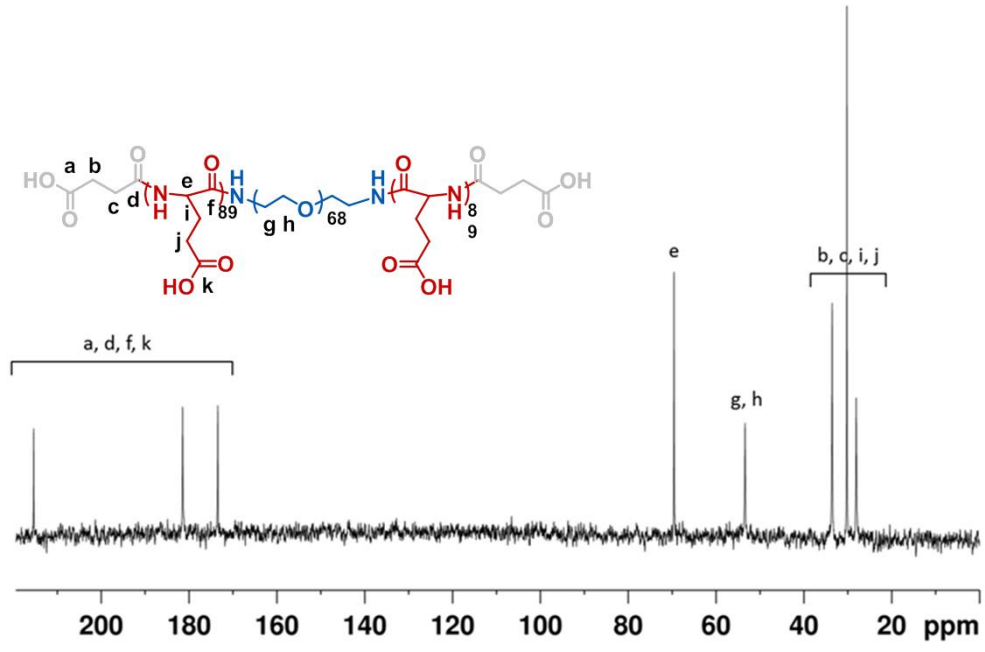


Figure S7. ^{13}C NMR, D_2O, 100MHz, PGA_{89}-*b*-PEG_{68}-*b*-PGA_{89}

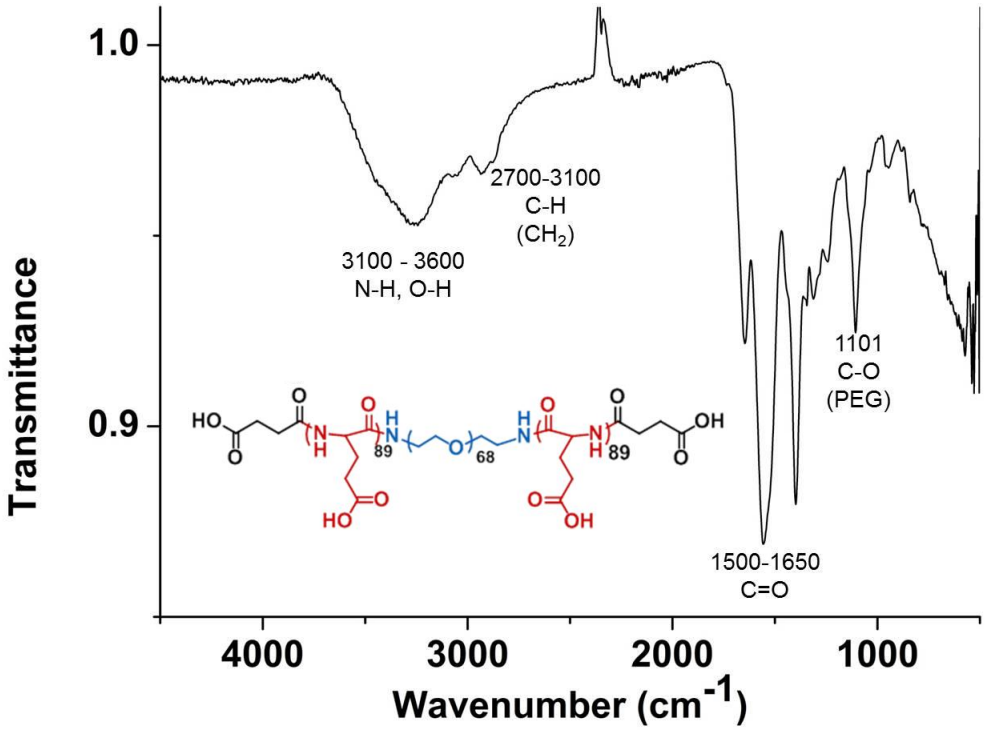


Figure S8. FTIR spectrum of PGA_{89}-*b*-PEG_{68}-*b*-PGA_{89}

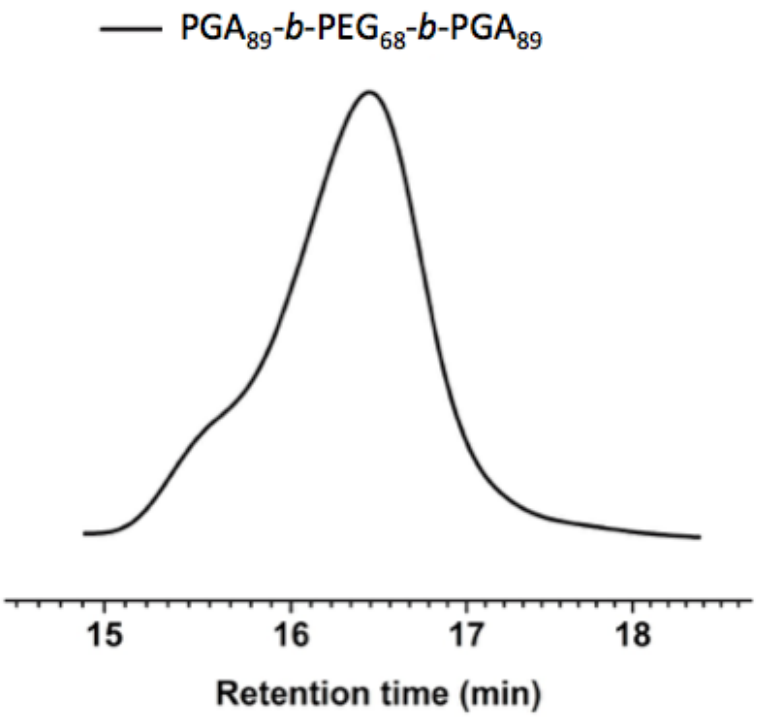


Figure S9. Water GPC of PGA_{89}-*b*-PEG_{68}-*b*-PGA_{89}

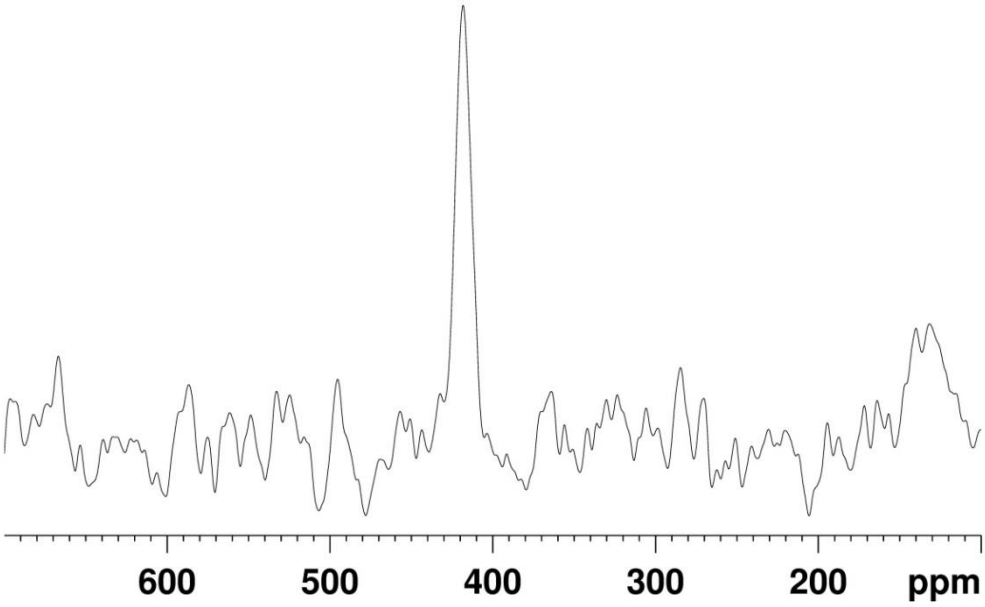
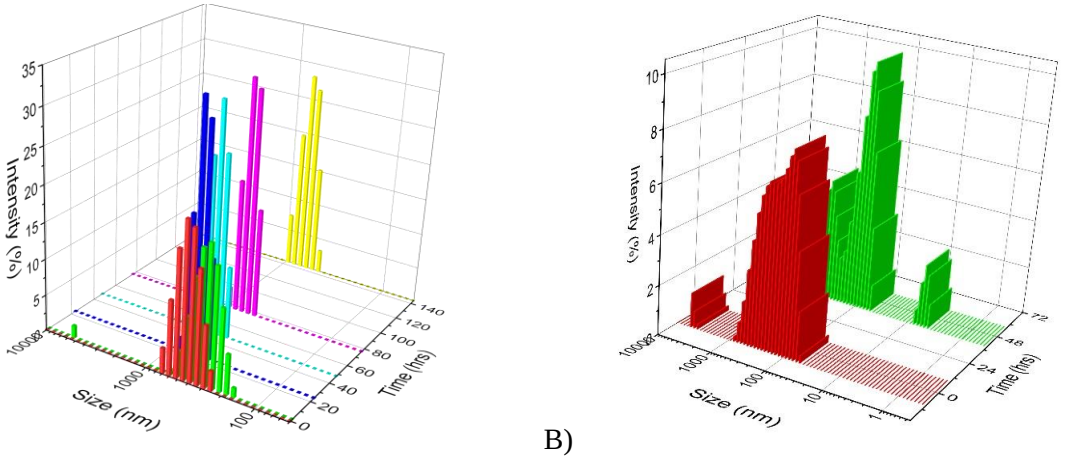


Figure S10. ^{195}Pt NMR, 86 MHz, D_2O, of [Pt(phen)(*S*,*S*-dach)$(OH)_2Cl_2$]



A) B)

Figure S11. DLS measurement (laser, 4 mW, λ = 632 nm; measurement angle 12.8° and 175°) on thermolysin enzymatic degradation (30-175 units/mg protein) of (PGA_{78}-b-PEG_{68}-b-PGA_{78})-14PTX-8Pt vesicular solution in water (1 mg/mL) over time at A) 37 ^oC B) 60 ^oC over time.

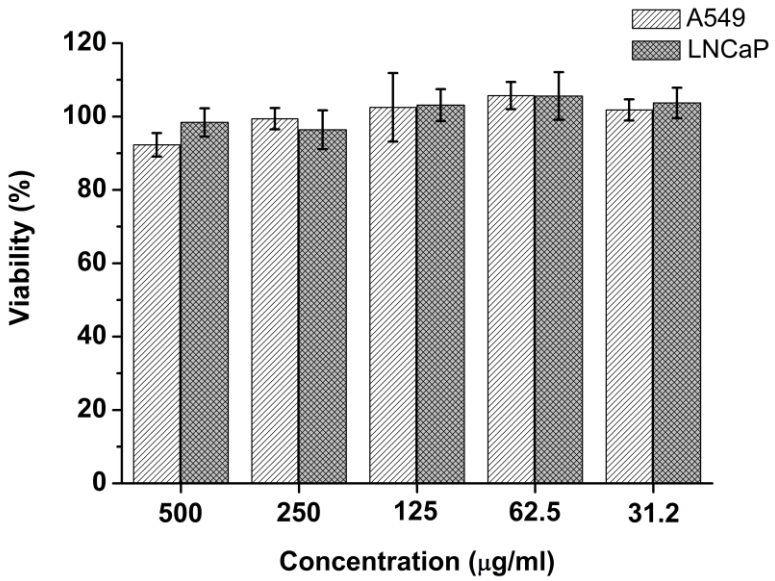


Figure S12. Cytotoxicity of unconjugated triblock copolymer on A549 and LNCaP cell lines.

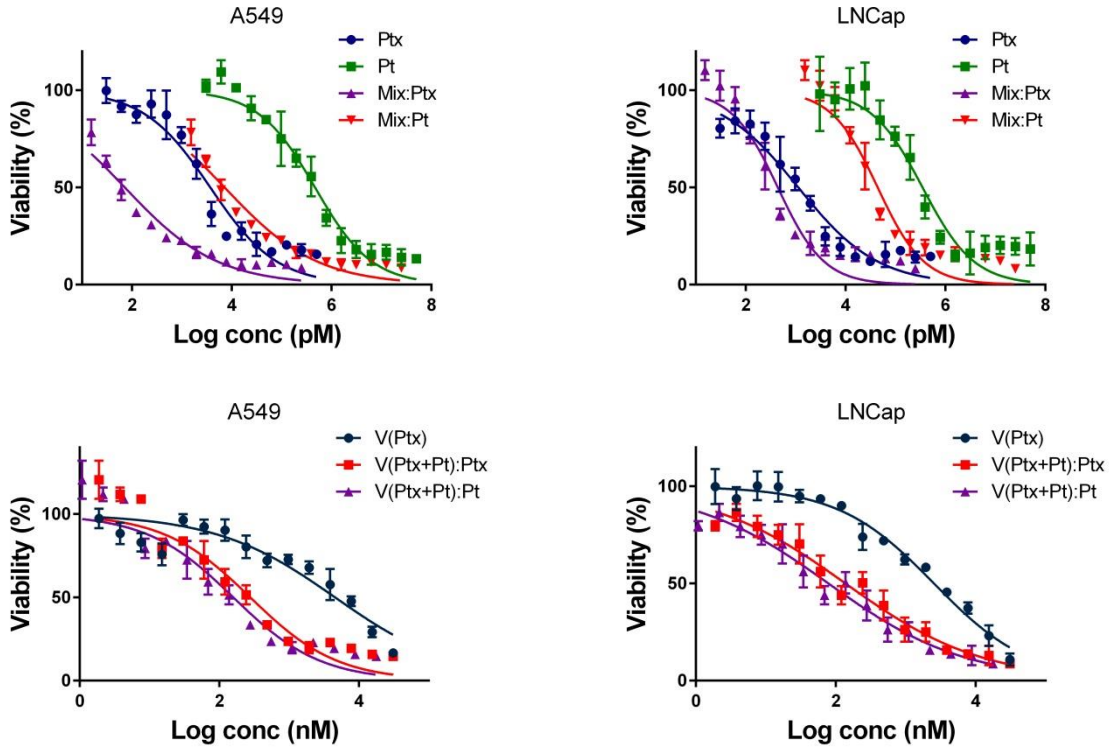


Figure S13. Cell viability against drug concentration after 72 hours of incubation with A549 and LNCap with free and nanoparticle bound drugs