

Supplementary Information

Synergistic Size and Charge Conversions of Functionalized PAMAM Dendrimers under Acidic Tumor Microenvironment

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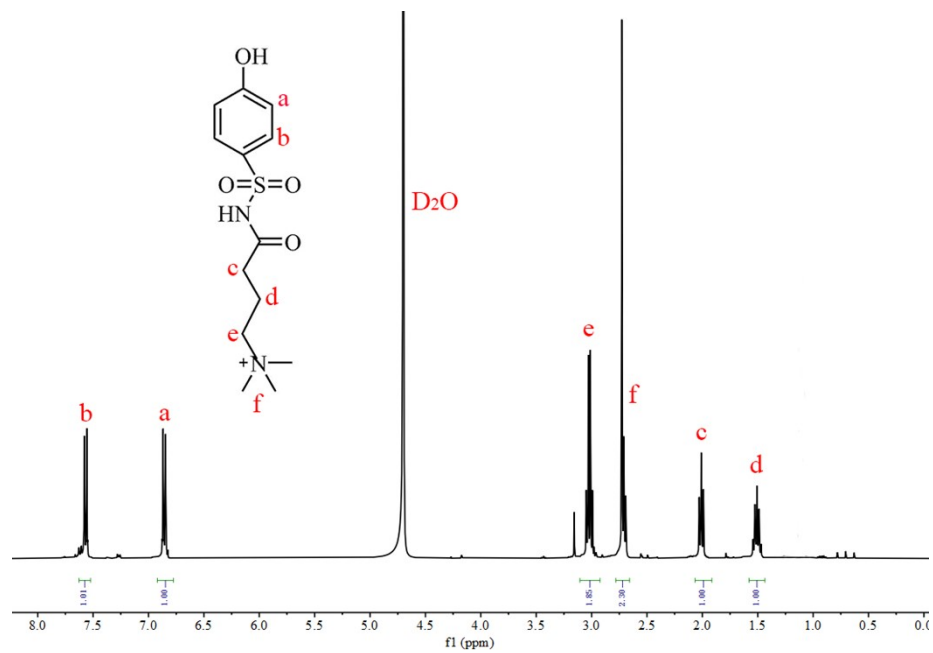


Figure S1. ^1H NMR spectrum of AB using D_2O as the solvent.

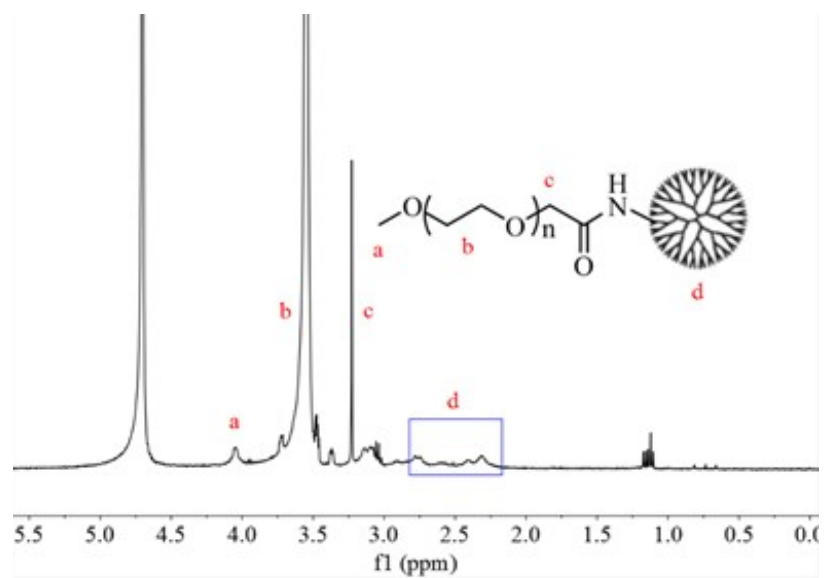


Figure S2. ^1H NMR spectrum of G4-PEG using D_2O as the solvent.

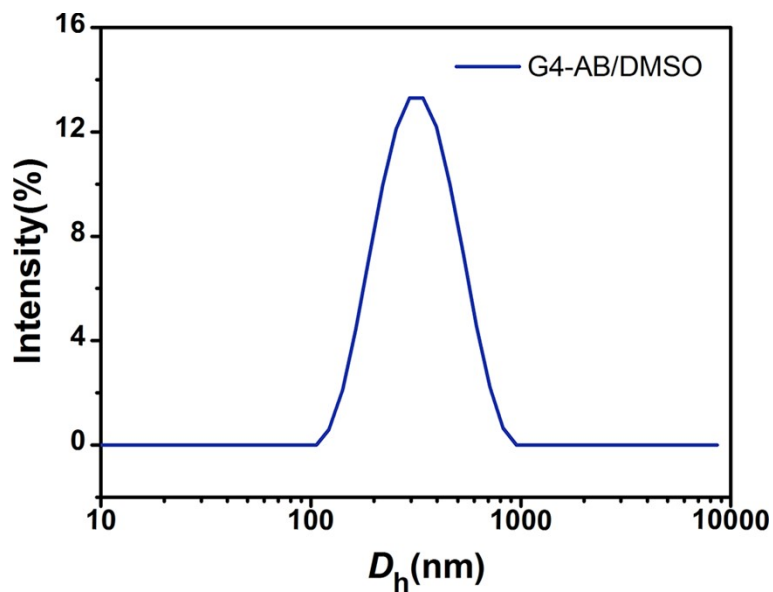


Figure S3. The particle sizes of G4-AB in DMSO.

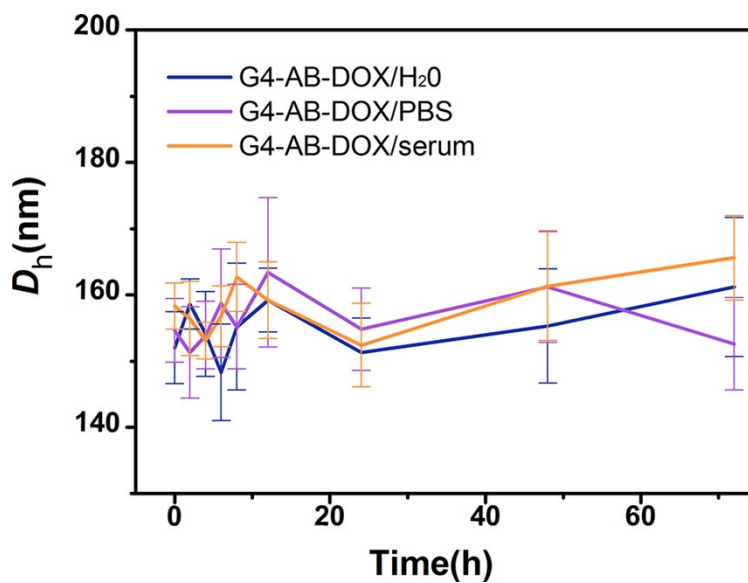


Figure S4. Particle size of G4-AB-DOX micelles in H₂O, PBS (pH 7.4) solutions and serum solutions for 72 h (SD, n=3).

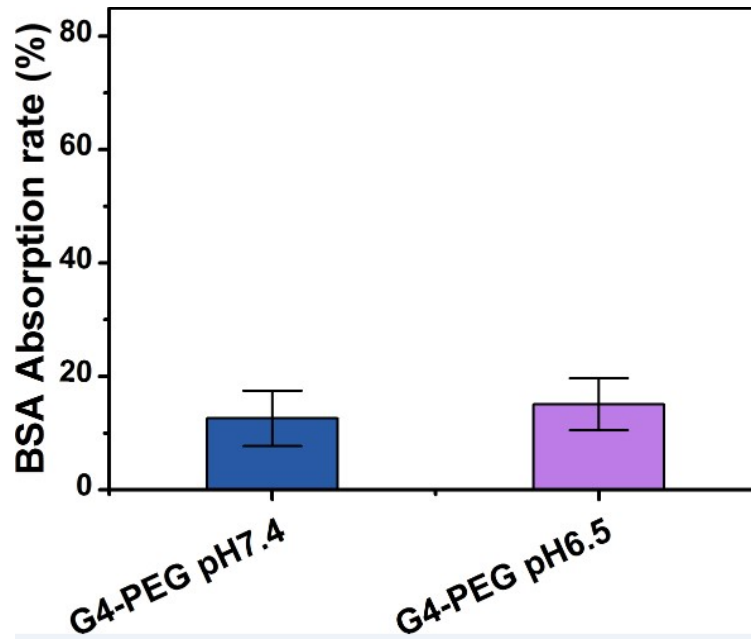


Figure S5. The BSA absorption rate of G4 -PEG micelles under different pH conditions at room temperature (SD, n=5).

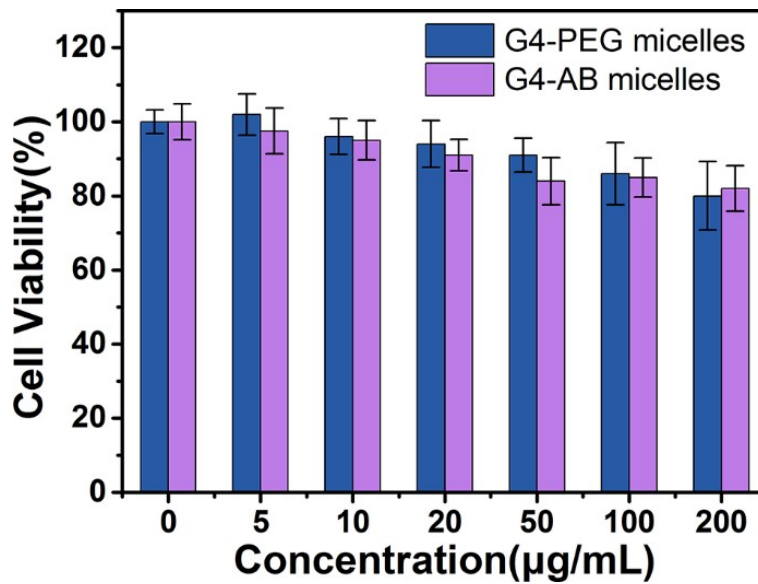


Figure S6. In vitro cytotoxicity of G4-PEG and G4-AB micelles against L02 cells after 24 h of treatment (SD, n=3).

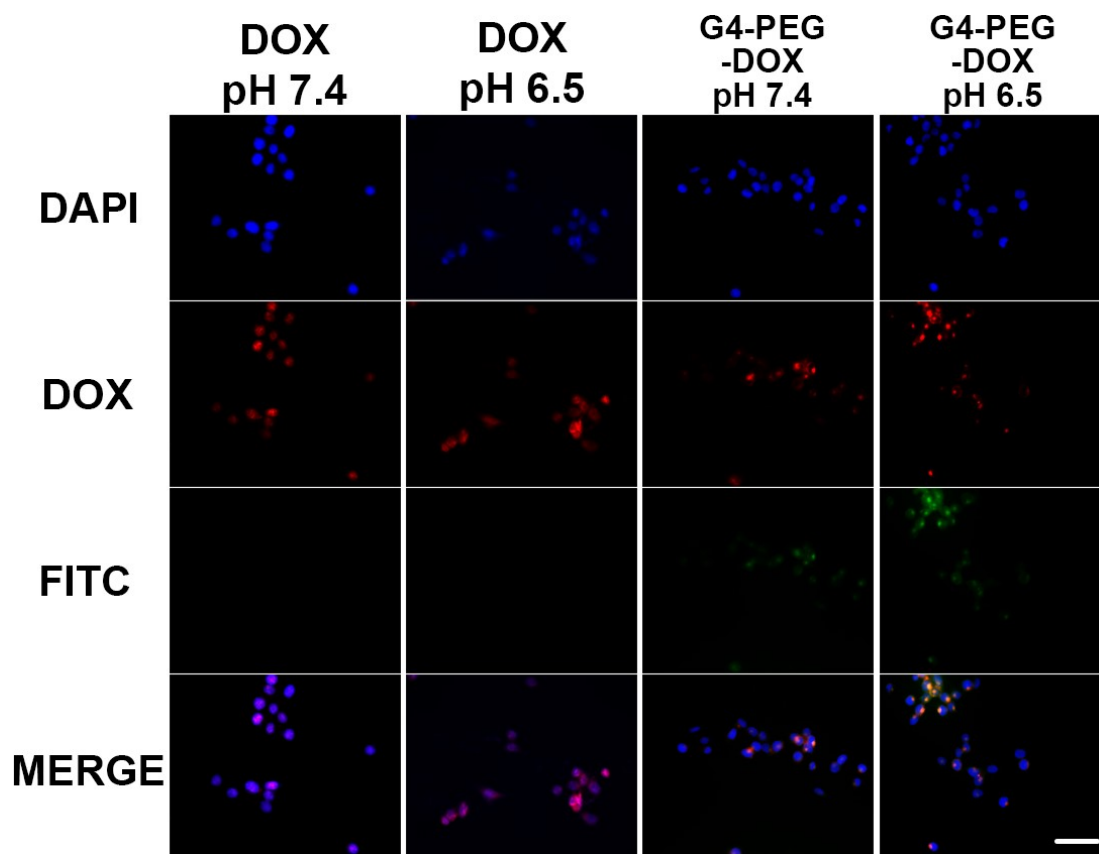


Figure S7. Fluorescence image of HepG2 cells after being incubated with DOX and G4-PEG-DOX micelles at pH 7.4 and 6.5 for 4 h (scale bar: 50 μ m).

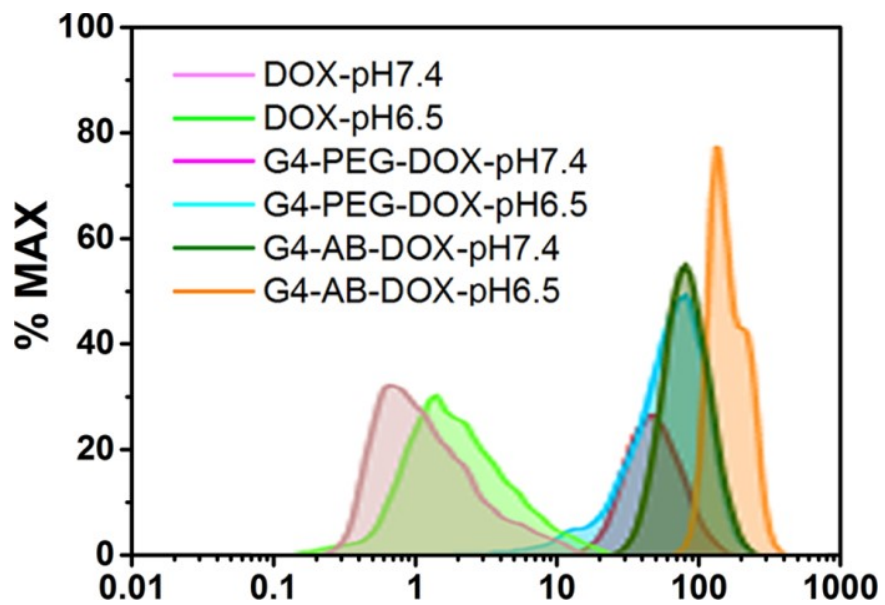


Figure S8. Flow-cytometric histograms of HepG2 cells treated with DOX, G4-PEG-DOX and G4-AB-DOX at 7.4 or 6.5.