Covalent self-assembled nanoparticles with pH-dependent enhanced tumor retention and drug release for improving tumor therapeutic efficiency

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Figure S1 Size and zeta potential of DOX/BNPs in one week after preparation. (A) Mean size of DOX/BNPs at different times; (B) Mean zeta potential of DOX/BNPs at different times.

Figure S2 The morphology of DOX/BNPs determined by TEM; (A) The TEM image of DOX/BNPs treated with an acid medium with a pH of 6.5 for 0.5 h; (B) The TEM image of DOX/BNPs treated with an acid medium with a pH of 4.0 for 0.5 h; (C) Size distribution of DOX/BNPs treated with an acid medium with a pH of 6.5 for 0.5 h; (D) Size distribution of DOX/BNPs treated with an acid medium with a pH of 4.0 for 0.5 h.
Figure S3 The fluorescence emission spectra of the FITC-labelled PSA in the supernatant of two groups;

Figure S4 Representative HPLC chromatograms of released DOX in the different media at 24 h;