## **Supporting information**

## Hypoxia-responsive polypeptide nanoparticles loaded with doxorubicin for breast cancer therapy

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Figure S1. Synthetic route of mPEG-PLG-NC.



**Figure S2.** Typical <sup>1</sup>H NMR spectrum of mPEG-PPLG in CF<sub>3</sub>COOD.



Figure S3. Typical <sup>1</sup>H NMR spectrum of AP-NC in CDCl<sub>3</sub>.



**Figure S4.** Histological (H&E staining) analyses of major organs from the mice at the end of treatment. Scale bar: 100 μm.