Electronic Supplementary Information for:

Hypoxia-responsive micelles self-assembled from amphiphilic block copolymer for the controlled release of anticancer drug

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1. Supplementary Results

**Fig. S1** Determination of CMC for PEG-b-P(MAA-co-NIMA) using the fluorescence method with pyrene as a probe.
**Fig. S2** $^1$H NMR spectra of (a) NH$_2$-NI, (b) PEG$_{45}$-Br, (c) PEG$_{45}$-b-P/BMA$_{20}$, (d) PEG$_{45}$-b-PMAA$_{20}$ and (e) PEG$_{45}$-b-P(MAA$_8$-co-NIMA$_{12}$). The $I$ represents the area of the sub-integral of each peak.

**Fig. S3** TEM images of (a) PEG$_{45}$-b-P(MAA$_{14}$-co-NIMA$_8$), (b) PEG$_{45}$-b-P(MAA$_{12}$-co-NIMA$_8$) and (c) PEG$_{45}$-b-P(MAA$_8$-co-NIMA$_{12}$) micelles incubated with only NADPH for 3 h under normoxic condition.
Fig. S4 TEM images of (a) PEG$_{45}$-b-P(MAA$_{14}$-co-NIMA$_6$), (b) PEG$_{45}$-b-P(MAA$_{12}$-co-NIMA$_8$) and (c) PEG$_{45}$-b-P(MAA$_{8}$-co-NIMA$_{12}$) and hydrodynamic radius ($R_h$) of copolymer micelles of (a’) PEG$_{45}$-b-P(MAA$_{14}$-co-NIMA$_6$), (b’) PEG$_{45}$-b-P(MAA$_{12}$-co-NIMA$_8$) and (c’) PEG$_{45}$-b-P(MAA$_{8}$-co-NIMA$_{12}$) incubated under hypoxic condition with 100 mM NADPH as an electron donor.