Electronic Supplementary Information

of

Co-delivery of proapoptosis peptide and p53 DNA by reduction-sensitive polypeptides for cancer therapy

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Fig. S1. The CD spectra of xPolyR₈, KLA(THP) and xPolyR₈-KLA(THP). The positive bands near 208 nm and 220 nm were indicative of α-helical conformation of KLA(THP) and xPolyR₈-KLA(THP)
Fig. S2 Agarose gel electrophoresis retardation assay of (A) xPolyR₈/pGL-3 complex, (B) C-KLA(TPP)/pGL-3 complex and (C) xPolyR₈-KLA(TPP)/pGL-3 complex at different w/w ratios.
Fig. S3 Particle size of vector/pGL-3 complexes at w/w ratios ranging from 5 to 40 (A) and zeta potential of vector/pGL-3 complexes at w/w ratios ranging from 5 to 40 (B).

Data are shown as the mean ± SD (n = 3).
**Fig. S4** TEM images of vector/pGL-3 complexes at w/w ratio of 20. A: xPolyR₈/pGL-3 complex; B: KLA(TPP)/pGL-3 complex; and C: xPolyR₈-KLA(TPP)/pGL-3 complex.
Fig. S5 The transfection of p53 mediated by vector/p53 complexes at w/w ratio of 20.

(A) xPolyR₈; (B) C-KLA( TPP); and (C) xPolyR₈-KLA( TPP).