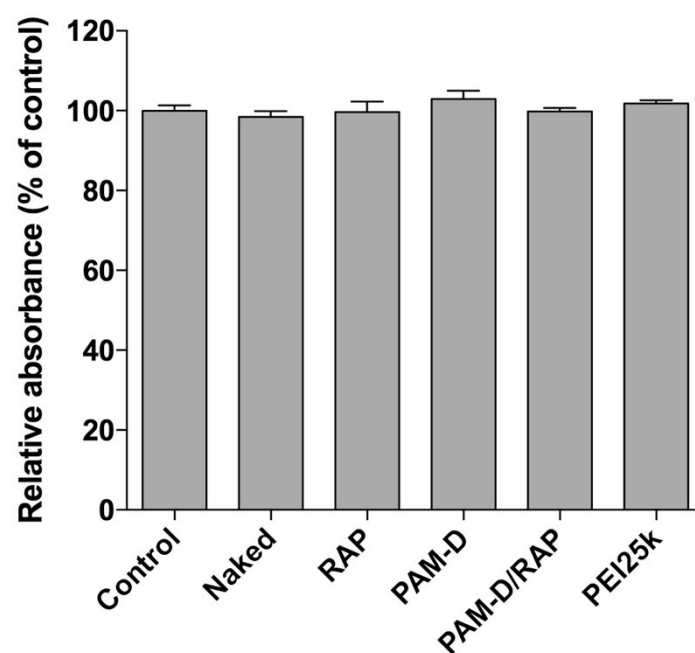


Supplementary Fig. 1. NMR analysis

The synthesized PAM-D was analyzed by nuclear magnetic resonance (NMR; VNMR-600, Varian, USA). Ten milligrams of PAM-D was dissolved in 0.6 ml of D₂O in the NMR tube. The sample was subjected to ¹H NMR analysis at 600MHz.



Supplementary Fig. 2. Effects of nanoparticles on MTT assay.

The pEmpty/RAP, pEmpty/PAM-D, pEmpty/PAM-D/RAP and pEmpty/PEI25K complexes were prepared at their optimal ratios. The control was distilled water. The 20 μ l of 5 mg/ml MTT solution was added to each well in a 24 well microassay plate and incubated for 4 h at 37°C. Then, the 500 μ l of DMSO was added to complexes. The absorbance of each well at 570 nm was measured using a microplate reader.