

Supplementary information for
Polyplexes by polymerized dequalinium and bi-functional aptamer for
mitochondrial targeting drug release to overcome drug resistance

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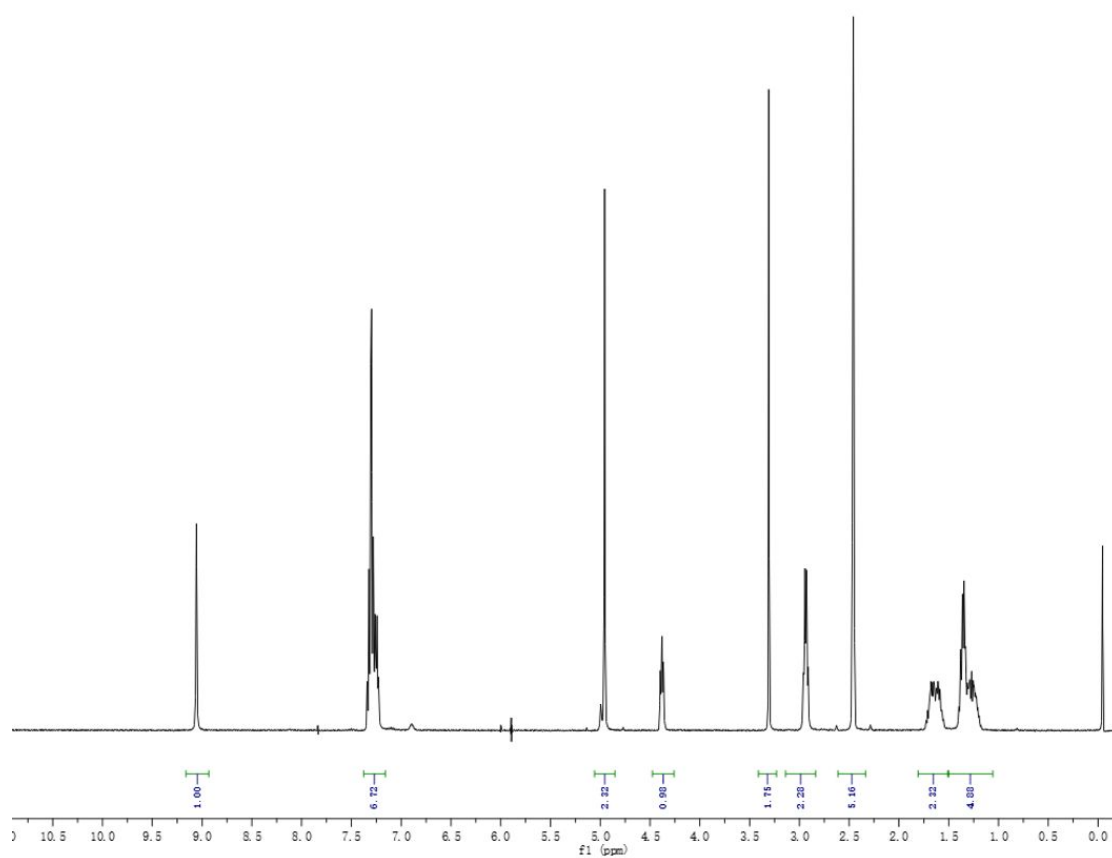


Figure S1. ^1H NMR spectrum of lys(Z)-NCA in $\text{D}_6\text{-DMSO}$.

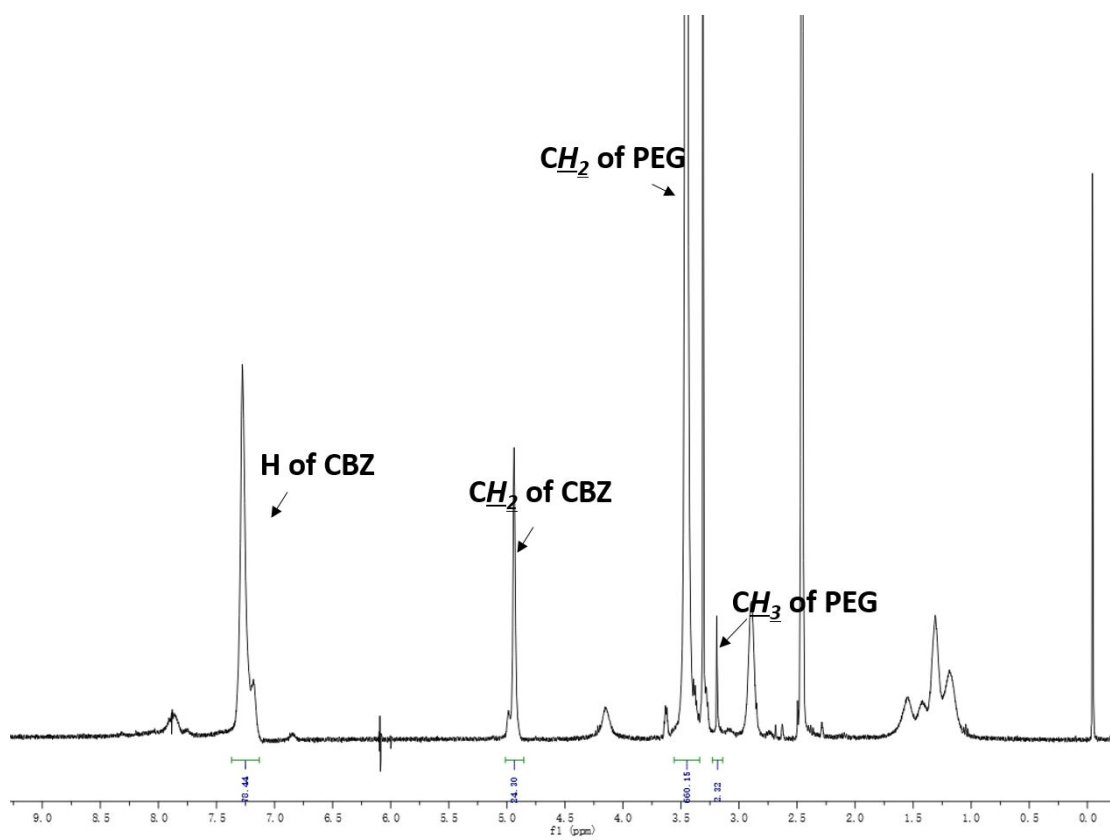


Figure S2. ^1H NMR spectrum of mPEG-*p*(lys(Z))₁₂ in D₆-DMSO.

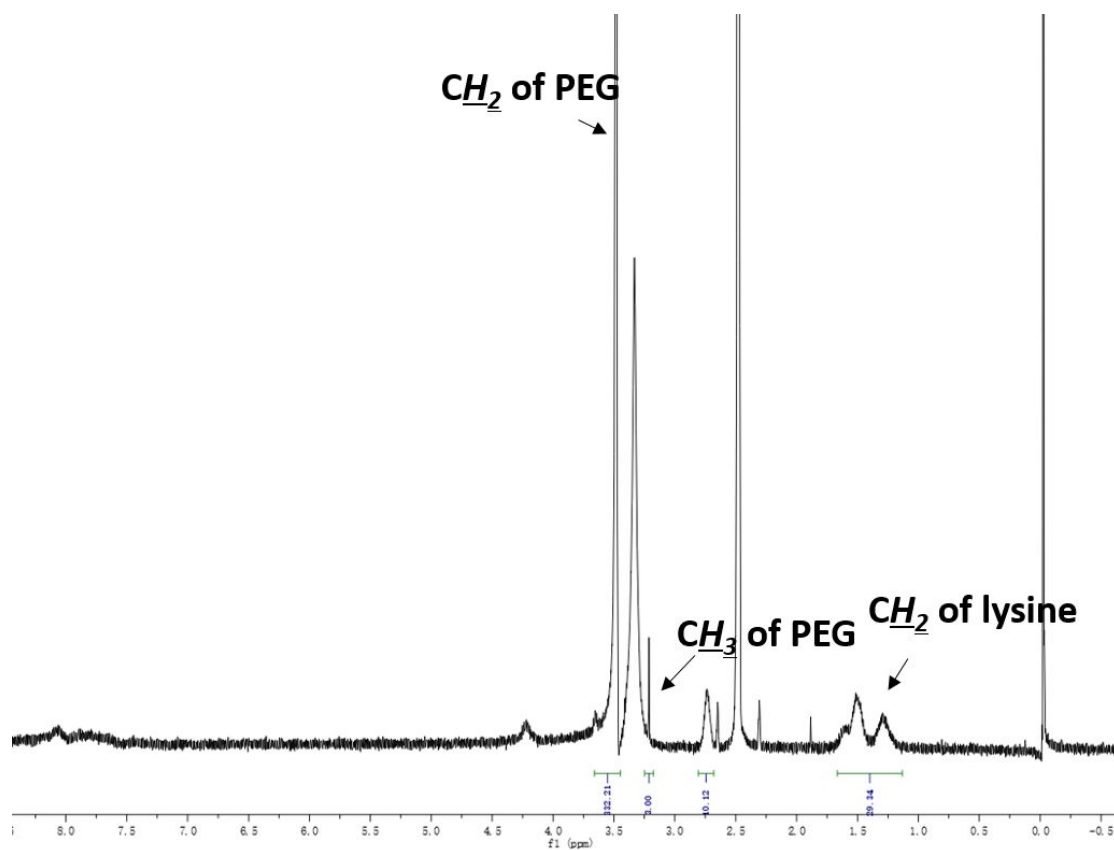


Figure S3. ^1H NMR spectrum of mPEG-*p*(lys)₁₂ in D₆-DMSO.

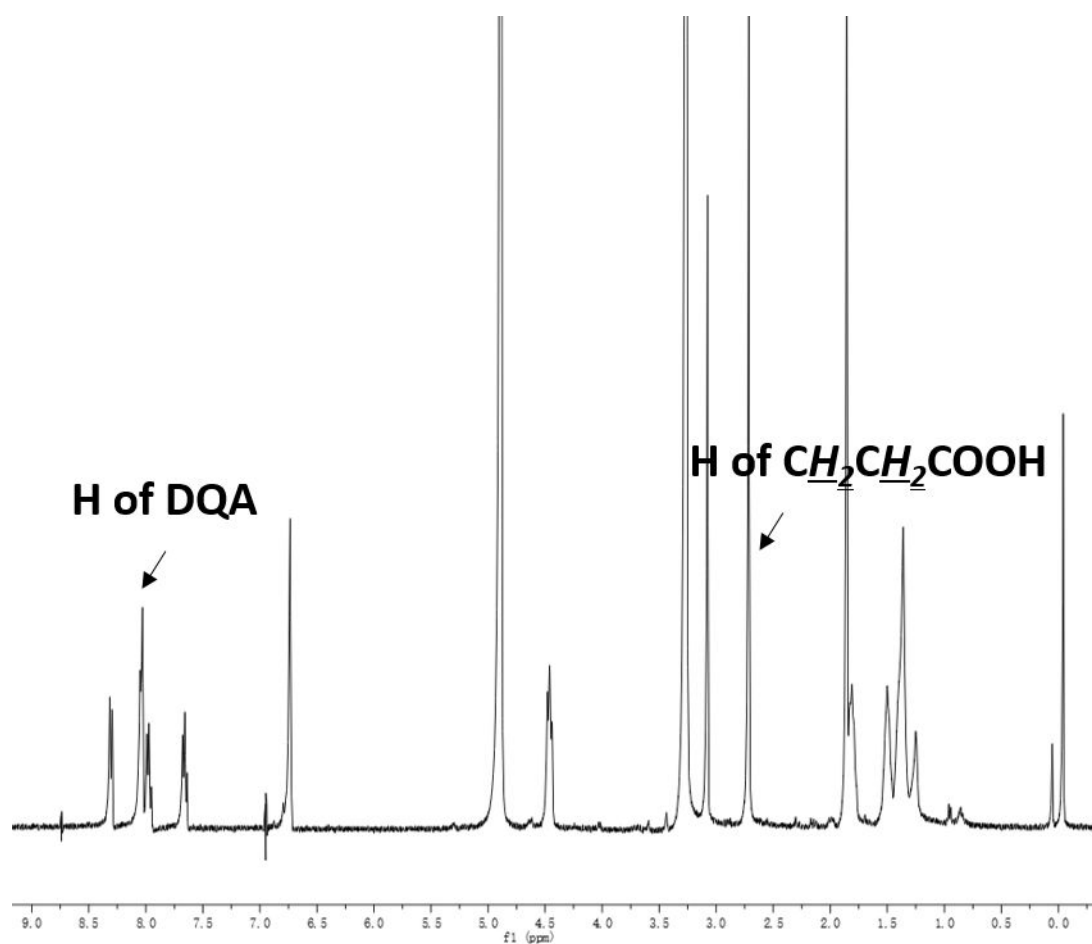


Figure S4. ^1H NMR spectrum of DQA-COOH in MeOD.

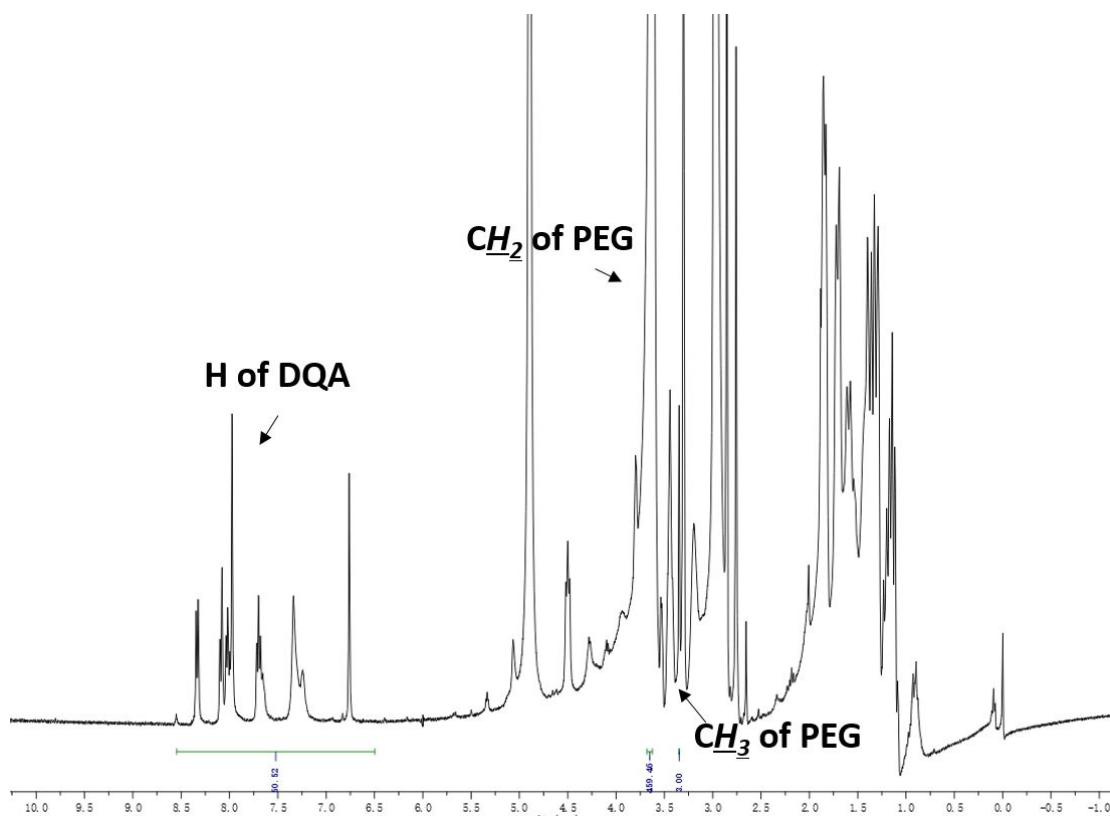


Figure S5. ^1H NMR spectrum of PEG-*p*DQA in D6-DMSO.

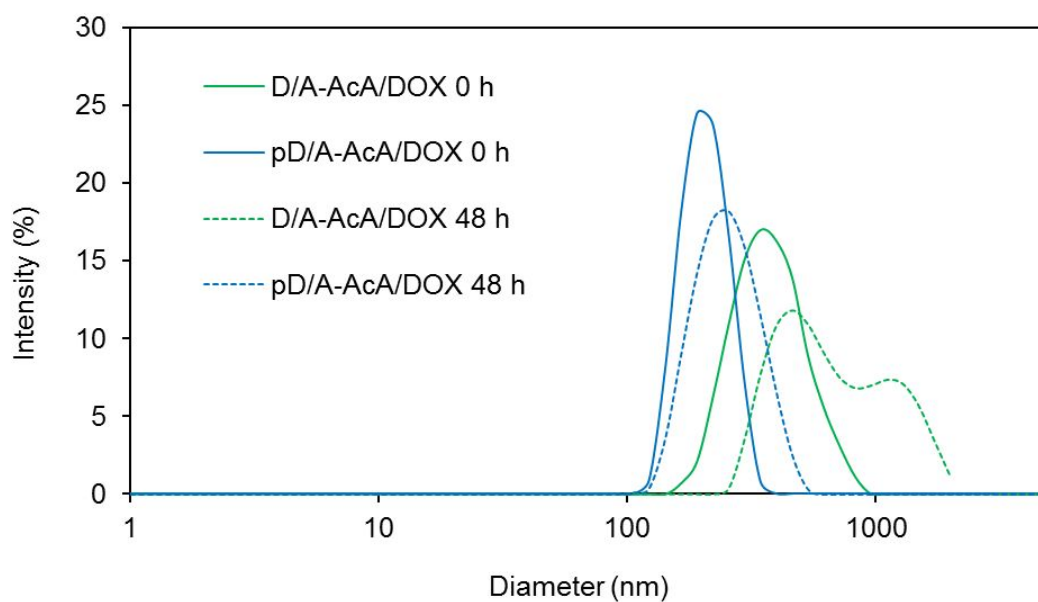


Figure S6. The hydrodynamics size distribution of freshly prepared and incubated polyplexes by dynamic light scattering.

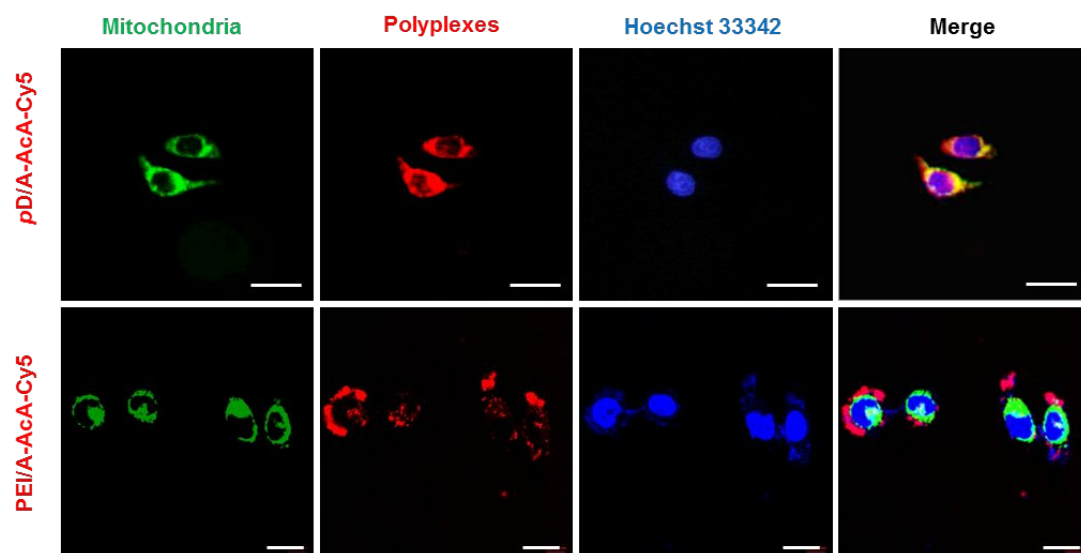


Figure S7. Mitochondrial targeting in MCF-7/DOX cells with strong mitochondria staining after treatment with polyplexes for 2 h. Mitochondria were stained by 200 nM Mito-Tracker Green for 30 minutes and then evaluated using fluorescence microscope. Scale bar: 20 μ m.