

## Electronic Supplementary Information

### **Redox-triggered intracellular dePEGylation based on diselenide-linked polycations for DNA delivery†**

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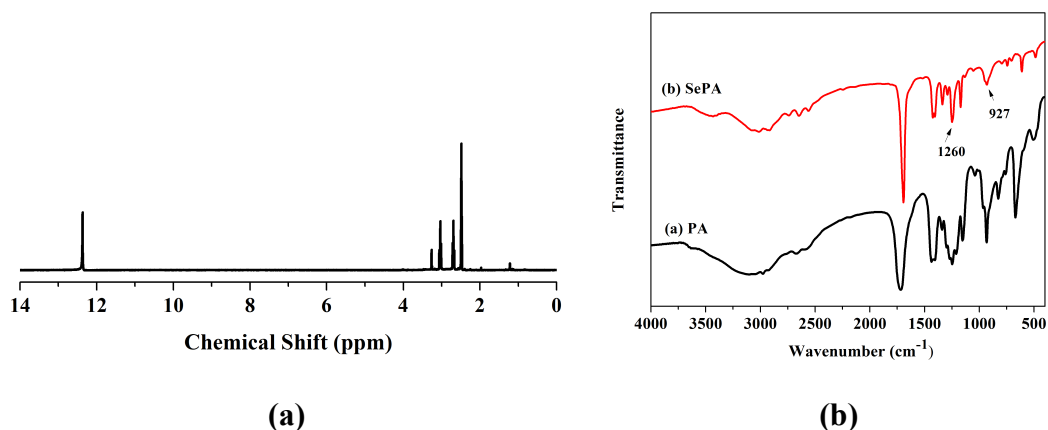


Fig. S1 The  $^1\text{H}$  NMR (a) in  $\text{DMSO-d}_6$  and FT-IR (b) spectrum of SePA.

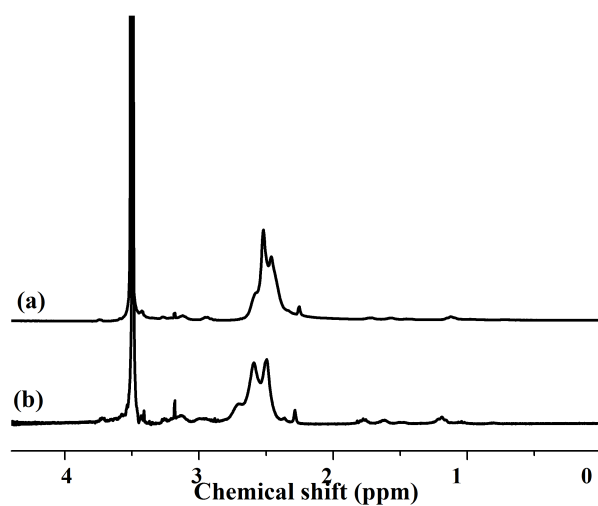


Fig. S2 The  $^1\text{H}$  NMR spectrum of mPEG-SS-PEI (a) and mPEG-PEI (b) in  $\text{D}_2\text{O}$ .

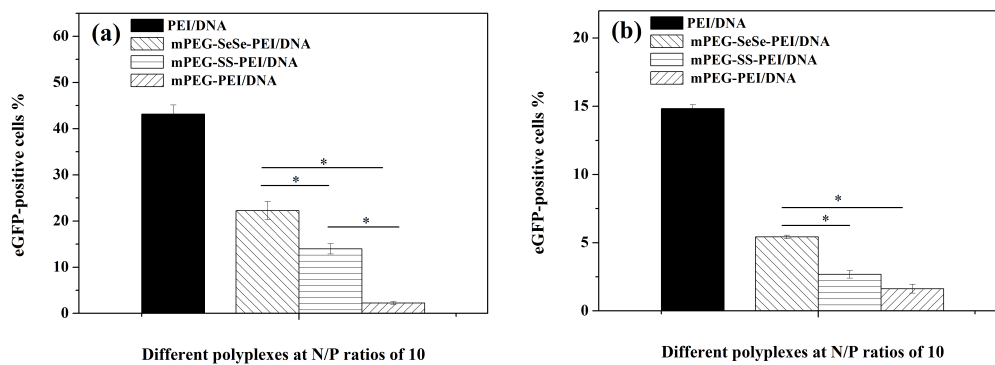


Fig. S3 Transfection efficiency of HEK293T (a) and HepG2 (b) cells exposed to different polyplexes/DNA polyplexes at N/P ratios of 10. \* $p < 0.05$