

*- Supplementary Information for:

Intracellular redox potential-responsive micelles based on polyethylenimine-cystamine-poly (ϵ -caprolactone) block copolymer for enhanced miR-34a delivery

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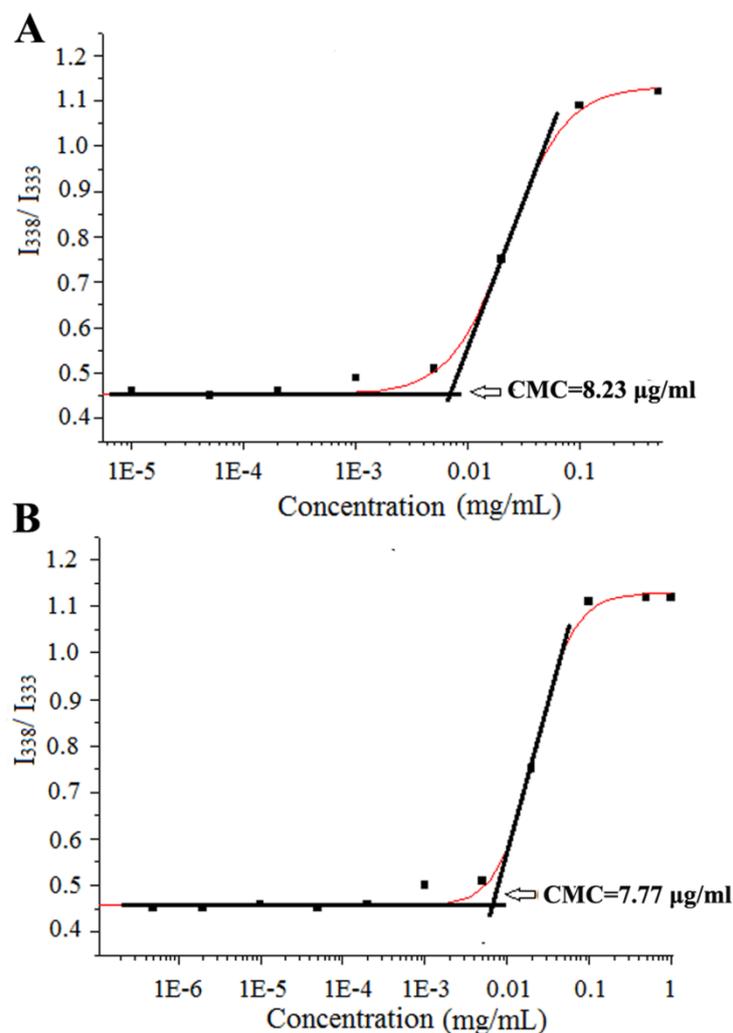


Fig.S1. Plots of the intensity ratio I_{338}/I_{333} (from pyrene excitation spectra at $\lambda_{em}=390$ nm) vs. log C for PP (A) and PSSP (B).

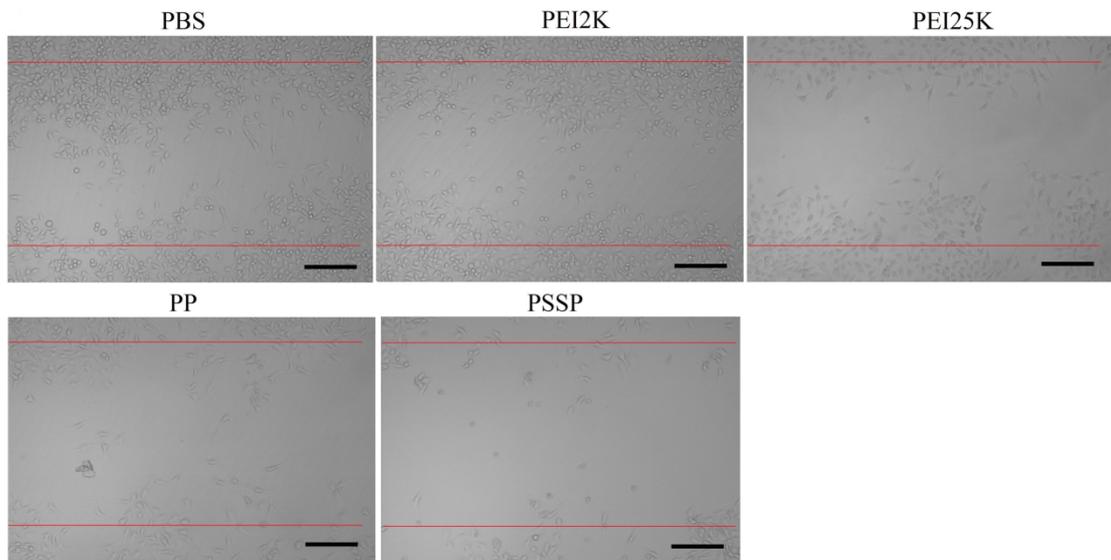


Fig.S2. Effects of polymer/miR-34a complexes on B16F10 cell motility and migration: representative images of wound-healing assay. Scale bar: 50 μm .

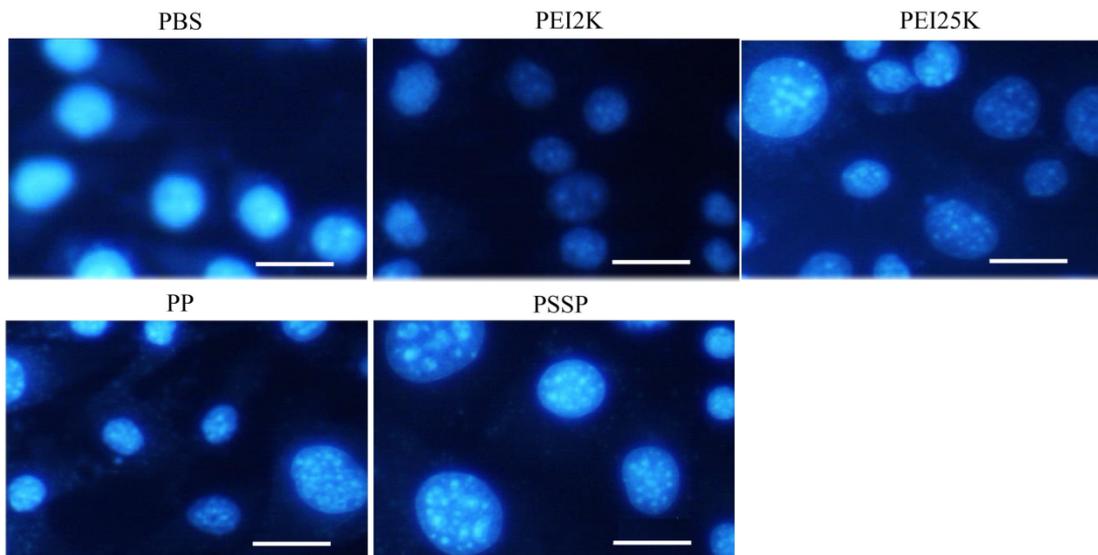


Fig.S3. DAPI staining of fragmented chromatin or apoptotic bodies in B16F10 cells after transfection with polymer/miR-34a. Scale bar: 30 μm .

Table.S1. The effect of N/P ratio on particle size and zeta potential of polymer/miRNA complexes.

Polymer	N/P ratio	Size (nm)	PDI	Zeta potential (mV)
PP	Blank micelle	153.2 ± 3.4	0.023 ± 0.003	+37 ± 1.6
	5/1	203.2 ± 5.3	0.381 ± 0.001	+16 ± 1.2
	15/1	120.4 ± 2.7	0.143 ± 0.003	+28 ± 2.5
	30/1	122.5 ± 4.2	0.087 ± 0.001	+30 ± 1.6
PSSP	Blank micelle	157.4 ± 3.9	0.035 ± 0.002	+35 ± 1.9
	5/1	210.3 ± 2.4	0.295 ± 0.005	+17 ± 0.9
	15/1	119.8 ± 3.6	0.120 ± 0.003	+27 ± 1.7
	30/1	125.2 ± 6.4	0.089 ± 0.004	+31 ± 1.4