pharmaceutics

MDPI

Supplementary Materials: Development of iRGD-Modified Peptide Carriers for Suicide Gene Therapy of Uterine Leiomyoma

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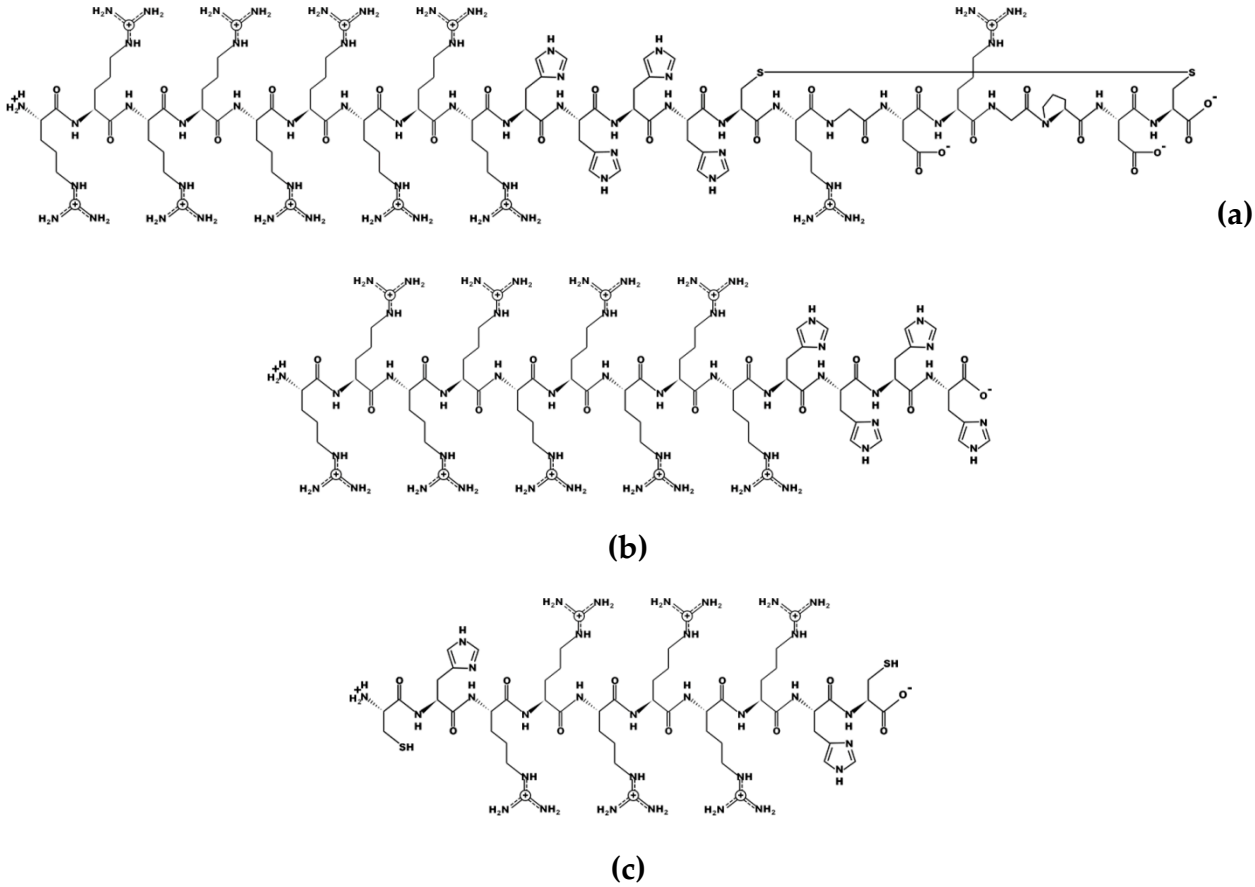


(a)

(b)

(c)

Figure S1. Molecular structures of RGD1 **(a)**, RGD0 **(b)**, and R6 **(c)** peptides. The images were processed by PepDraw software (http://pepdraw.com/).

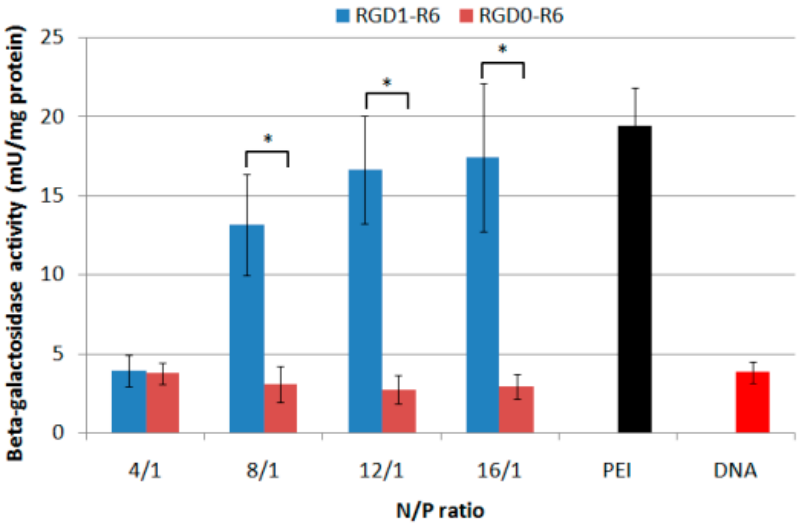


Figure S2. Transfection efficacy evaluation of RGD1-R6 and RGD0-R6-polyplexes formed with pCMV-lacZ plasmid in PANC-1 cells in presence of fetal bovine serum. * p <0.05 compared to RGD0-polyplexes.

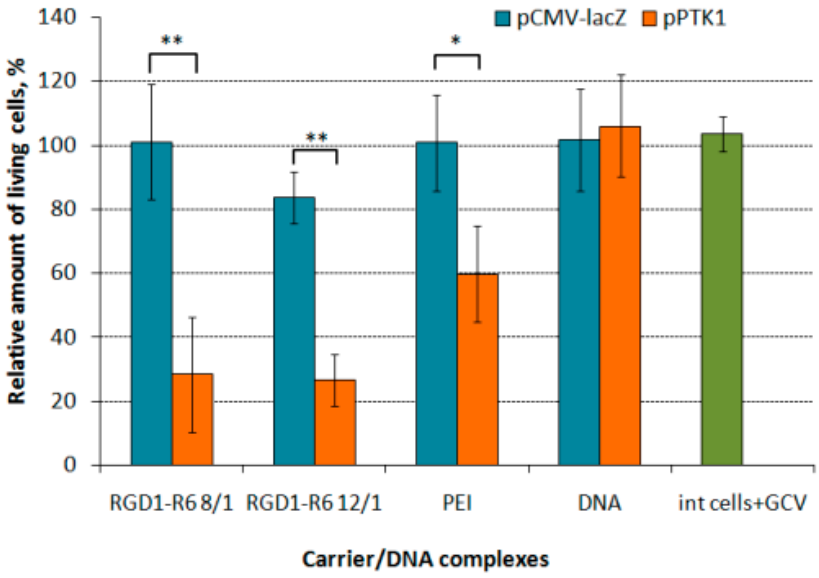


Figure S3. PANC-1 cell viability after HSV thymidine kinase expression and GCV treatment. Values are the mean ± SD of the mean of triplicates. * p <0.05, ** p <0.01 compared to pCMV-lacZ-complexes.

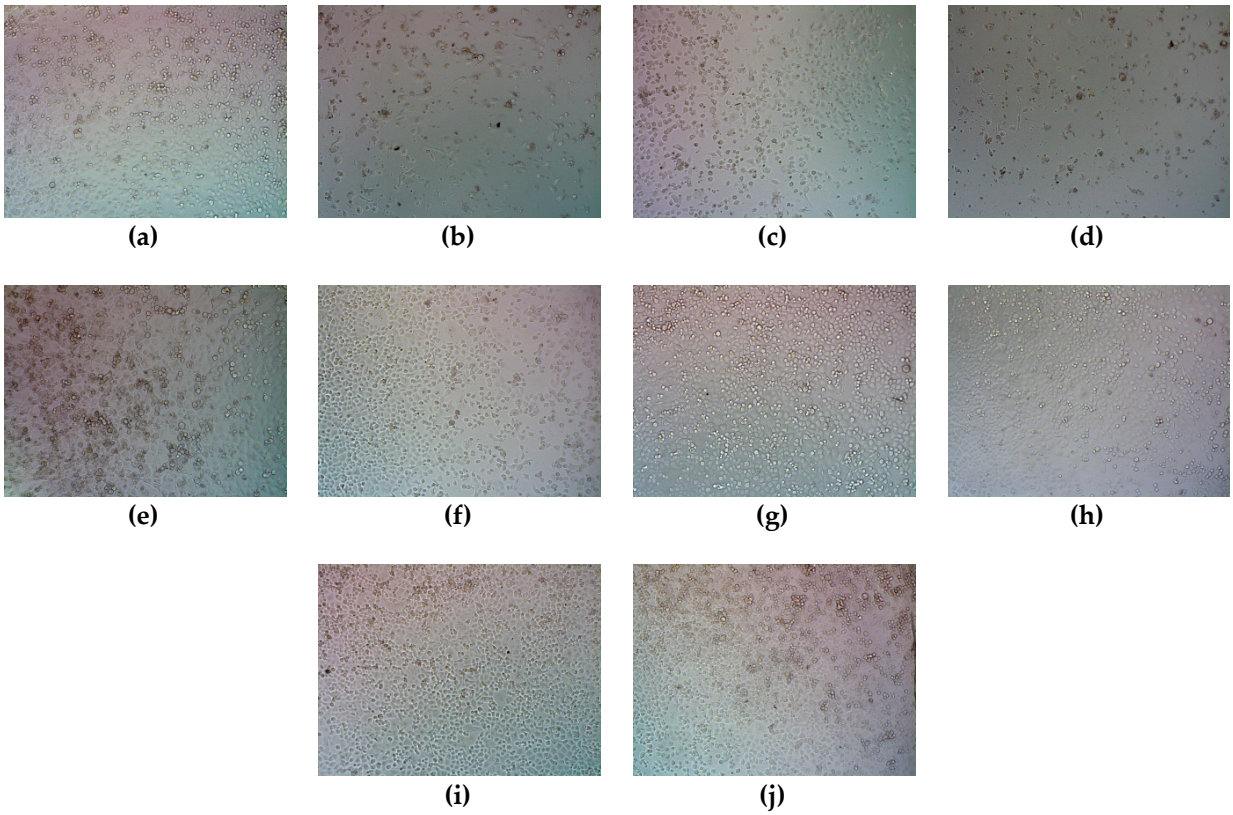
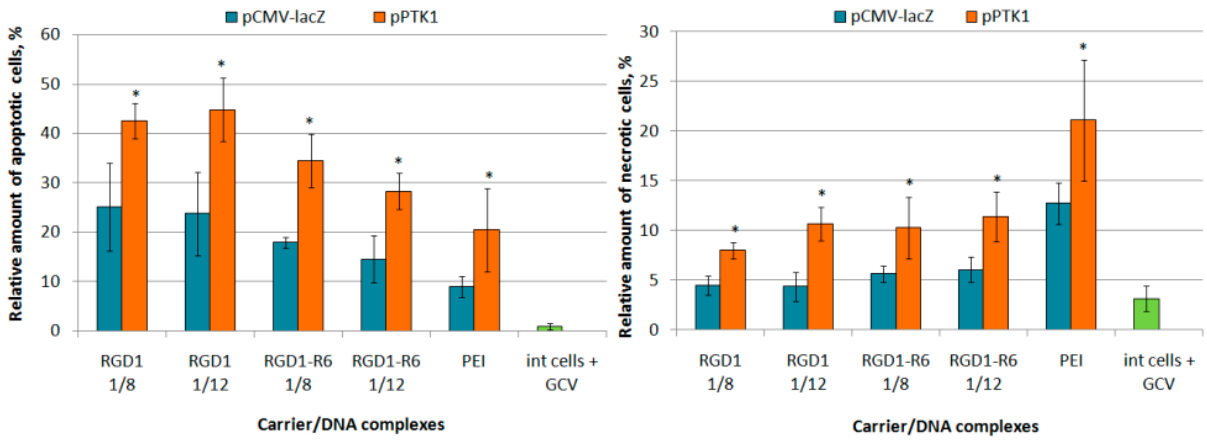


Figure S4. Typical microphotographs in bright field after 96 h of GCV treatment. The PANC-1 cells were transfected with RGD1-R6/pCMV-lacZ polyplexes at N/P ratios of **(a)** 8/1, **(c)** 12/1; with RGD1-R6/pPTK1 complexes at **(b)** 8/1, **(d)** 12/1 charge ratio; with PEI/DNA complexes using **(e)** pCMV-lacZ and **(f)** pPTK1 plasmids; with **(g)** pCMV-lacZ and **(h)** pPTK1 plasmids only. Control wells contained **(i)** GCV treated intact cells and **(j)** untreated intact ones.



(a) **(b)**

Figure S5. Apoptosis **(a)** and necrosis **(b)** of PANC-1 cells induced by GCV treatment after cell transfection with RGD1-R6/DNA or RGD1/DNA polyplexes formed with pPTK and pCMV-lacZ plasmids. Values are the mean ± SEM of the mean of four independent experiments. * $p < 0.05$ compared to pCMV-lacZ-complexes.