

Supplementary Materials: Polymeric Nanoparticles Based on Tyrosine-Modified, Low Molecular Weight Polyethylenimines for siRNA Delivery

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Table S1. siRNA sequences.

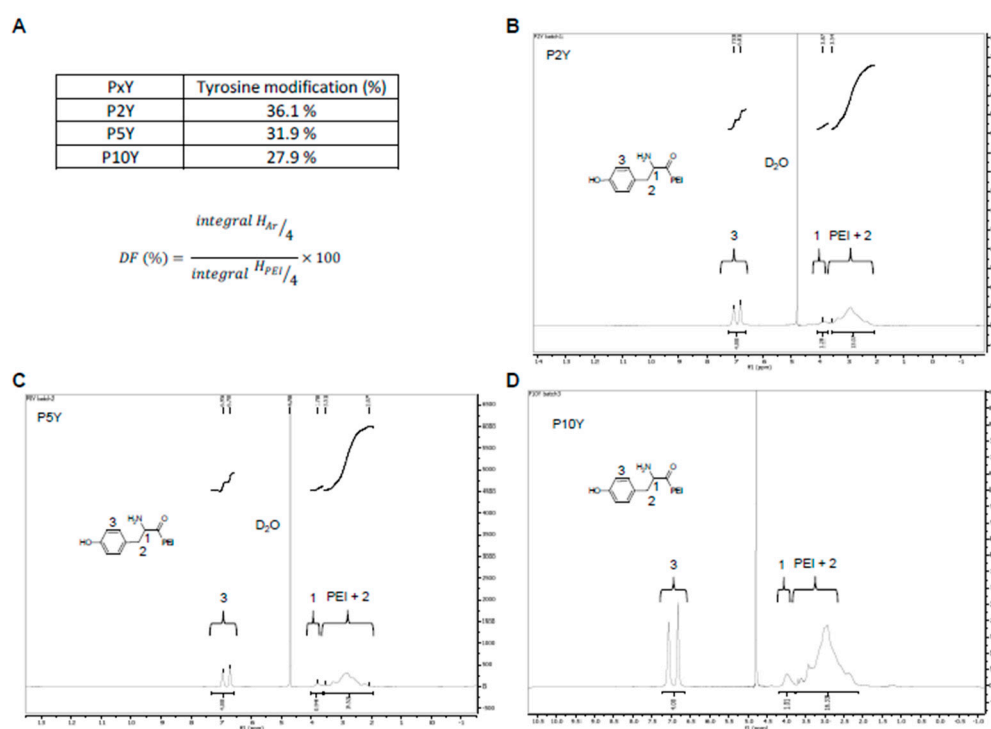
siRNA		Sequence (5' – 3')	
siLuc2 ^(a)	<i>sense</i>	CGUACGCGGAAUACUUCGA dTdT	Dharmacon Horizon
	<i>antisense</i>	UCGAAGUAUUCCGCGUACG dTdT	Discovery, Lafayette, CO, USA
siLuc3 ^(b)	<i>sense</i>	CUUACGCUGAGUACUUCGA dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	UCGAAGUACUCAGCGUAAG dTdT	
siEGFP	<i>sense</i>	GCAGCACGACUUCUUAAG dTdT	Eurofins Genomics, Ebersberg, Germany
	<i>antisense</i>	CUUGAAGAAGUCGUGCUGC dTdT	
siPLK1	<i>sense</i>	GAAGAUGCUUCAGACAGAU dTdT	Bioscience, Gera, Germany
	<i>antisense</i>	AUCUGUCUGAAGCAUCUUC dTdT	
siSurvivin	<i>sense</i>	GAAUUAACCCUUGGUGAAU dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	AUUCACCAAGGGUUAUUC dTdT	
siBcl-2	<i>sense</i>	AACAUCGCCCUGUGGAUGACU dTdT	Dharmacon Horizon
	<i>antisense</i>	AGUCAUCCACAGGGCGAUGUU dTdT	
siGAPDH #1	<i>Sense</i>	AUCCAUGGCACCGUCAAG dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	CUUGACGGUGCCAUGGAAU dTdT	
siGAPDH #2	<i>sense</i>	CCUCAACUACAUGGUUUAC dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	GUAAACCAUGUAGUUGAGG dTdT	
siGAPDH #3	<i>sense</i>	UCCAUGACAACUUUGGUAU dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	AUACCAAAGUUGUCAUGGA dTdT	
siUbb	<i>sense</i>	GGCCAAGAUGCAAGAUAAA dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	UUUAUCUUGGAUCUUGGCC dTdT	
siLuc3-Atto488	<i>sense</i>	Atto488-CUUACGCUGAGUACUUCGA dTdT	Eurogentec, Seraing, Belgium
	<i>antisense</i>	UCGAAGUACUCAGCGUAAG dTdT	
siAlexa647		Scrambled, Undisclosed by the vendor	Qiagen, Hilden, Germany

^(a) siLuc2 served as negative control siRNA for luciferase knockdown experiments.

^(b) siLuc3 is the specific luciferase siRNA, but served as negative control siRNA in all other knockdown experiments.

Table S2. RT-qPCR primer sequences.

Primer		Sequence (5' – 3')	
GAPDH	for	GGT GTG AAC CAT GAG AAG TAT GA	Bioscience, Gera, Germany
	rev	GAG TCC TTC CAC GAT ACC AAA G	
RPLP0	for	TCT ACA ACC CTG AAG TGC TTG AT	Eurofins Genomics, Ebersberg, Germany
	rev	CAA TCT GCA GAC AGA CAC TGG	
Survivin	for	TGA TGA GAG AAT GGA GAC AGA G	Bioscience, Gera, Germany
	rev	ACA GCA GTG GCA AAA GGA G	
PLK1	for	ATC TTC TGG GTC AGC AAG TG	Eurofins Genomics, Ebersberg, Germany
	rev	GCC GTC ACG CTC TAT GTA CT	

Figure S1. Degrees of tyrosine grafting and original ^1H -NMR spectra.

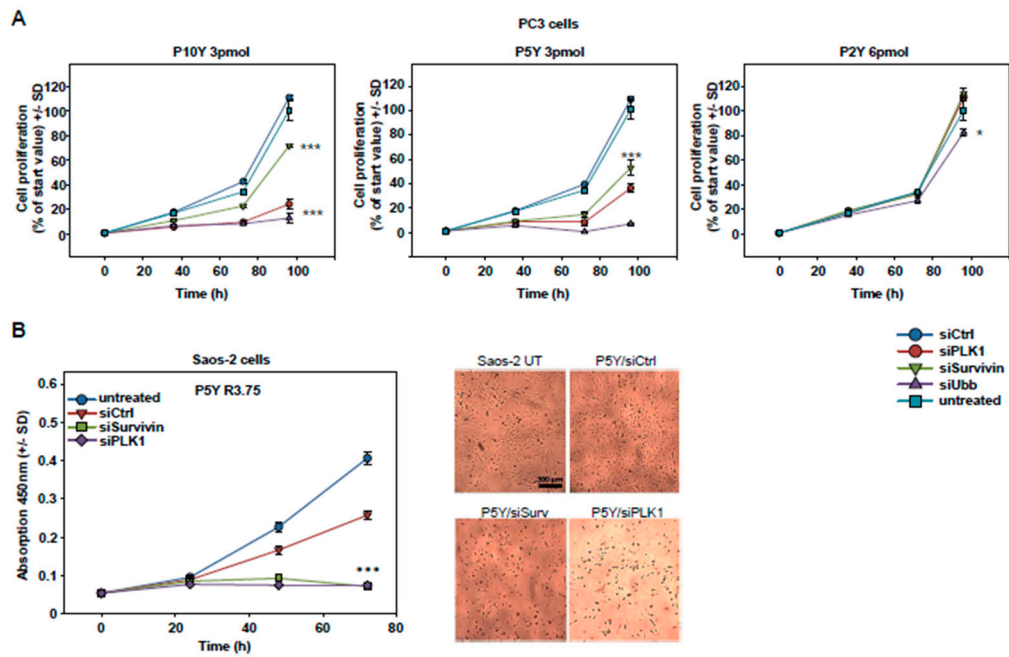


Figure S2. Additional data to Figure S1.

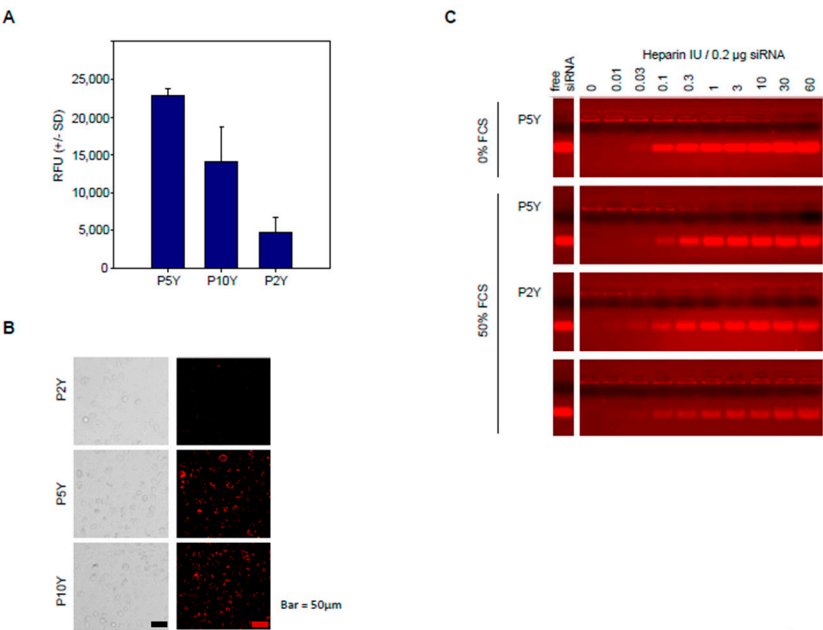


Figure S3. (A,B): Cellular siRNA uptake, (C) complex stabilities.

