

*Supplemental data*

**Design and use of silica-containing redox nanoparticles,  
siRNP, for high-performance peritoneal dialysis**

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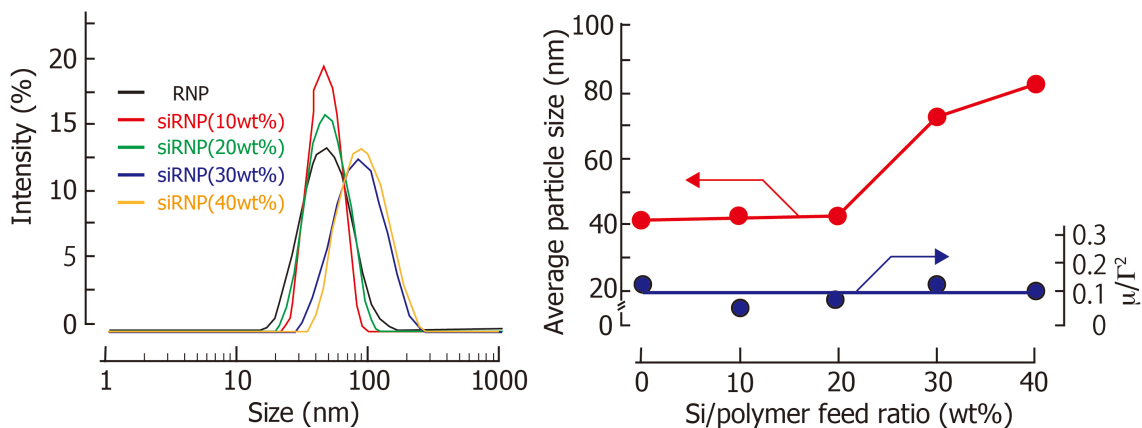
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The molecular weight of PEG-b-PCMS used in this study was 8,000 (MW of PEG and PCMS were 5,000 and 3,000, respectively)



**Figure S1.** Size distributions of siRNP(2) prepared by different Si/PEG-b-PMNT feed ratio determined by dynamic light scattering (a) and its distribution data (b)

**Table S1.** Size of siRNP(1) and their Zeta potentials<sup>1</sup>

Silica content in wt %	Average size (nm)	$\zeta$ -potential (mV)
0	22.4	0.62
1	38.2	-0.11
5	41.1	-3.4
10	47.2	-

<sup>1</sup>The same samples as in Figure 2a

**Table S2.** Silicon content and zeta-potential of siRNP(2)<sup>1</sup>

Silica content in wt %	Average size (nm)	$\zeta$ -potential (mV)
5	1.03	
10	2.24	
15	3.77	
20		-4.03
30	10.92	

<sup>1</sup>The same samples as in Figure S1