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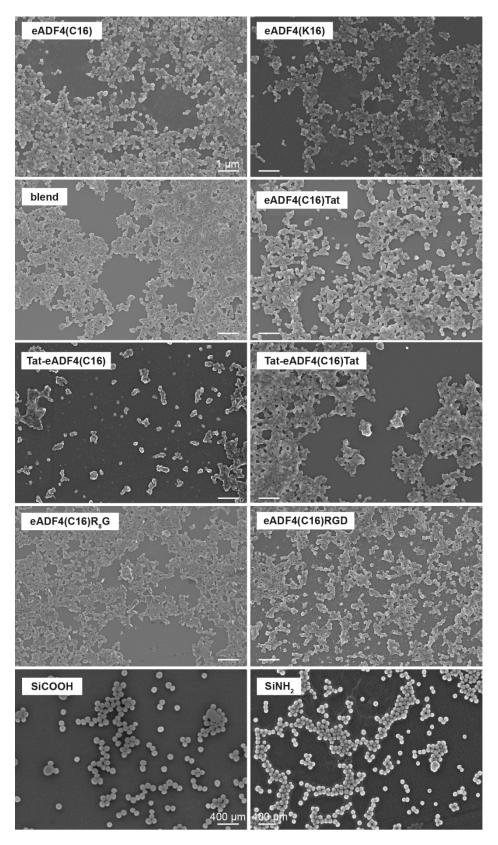


Fig. 1 Images (SEM) of spider silk and silica particles. Spider silk particles were prepared from a 0.1 mg/ml solution in EMiM[acetat] and analyzed in the dehydrated state. Scale bars: 1 μm (spider silk particles); 400 nm (silica particles)

Table S 1

Cells at a starting density of 50,000 cells/cm² were incubated in the presence of particles for 6 h in the absence and presence of endocytosis inhibitor (100 μ M of dansylcadaverine (DC) or di-methyl-amiloride (DMA)) at 37 °C. Inhibitors were added 30 min before particle addition.

	Cells with particles / %	Cells with particles / % + DC	Cells with particles / % + DMA
eADF4(κ16)	63.9 ± 15.5	27.3 ± 13.9	44.0 ± 13.6
blend	12.3 ± 4.4	3.4 ± 1.6	5.5 ± 2.0
eADF4(C16)R ₈ G	27.3 ± 7.5	17.8 ± 8.0	20.7 ± 14.6
Tat-eADF4(C16)	14.1 ± 10.5	7.0 ± 2.1	11.3 ± 7.4
eADF4(C16)RGD	20.7 ± 5.8	15.3 ± 2.1	12.6 ± 4.0
eADF4(C16)	7.8 ± 4.4	5.4 ± 0.1	2.4 ± 0.7
SiNH ₂	0.3 ± 0.3	1.5 ± 0.6	0.4 ± 0.8
SiCOOH	0.6 ± 0.7	2.5 ± 0.9	2.1 ± 0.6