



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 μM 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(k16) | 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 |