Electronic supplementary information

Boronic acid engineered gold nanoparticles for cytosolic protein delivery

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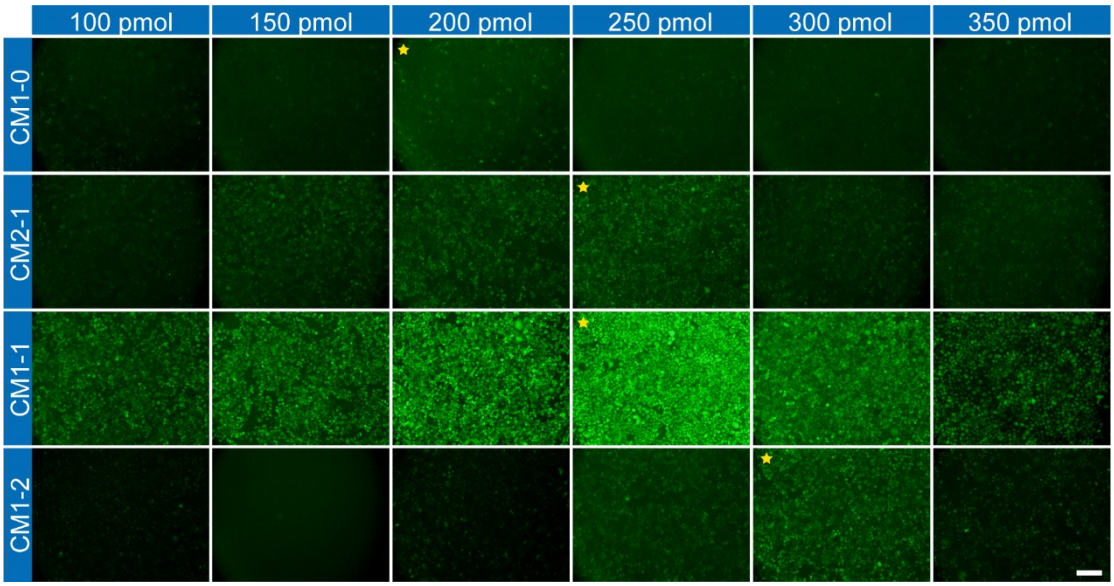

Fig. S1 Screening optimal conditions for AuNPs in the delivery of BSA-FITC into HeLa cells. 120 μg mL^{-1} BSA-FITC and 2-7 μM AuNPs were incubated at 50 μL water for 20 min before incubation with cells. The cells were treated with glucose solutions (2740 mOsmol kg^{-1}) for 3 min at 8 h. Yellow stars represent the optimal condition for the AuNPs. Scale bar, 200 μm.

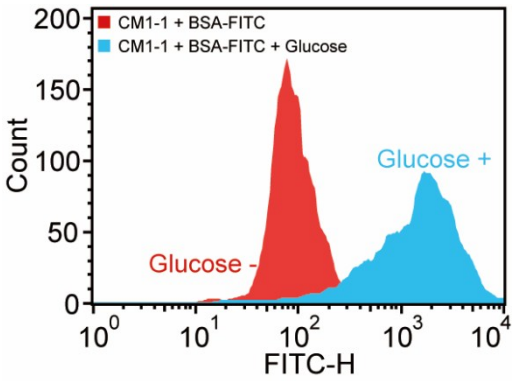

Fig. S2 Flow cytometry analysis of HeLa cells incubated with CM1-1/BSA-FITC complex for 8 h, followed by treatment with glucose solutions at 2740 mOsmol kg^{-1} for 3 min. The cells without glucose treatment were measured as a control.

Table S1. Zeta potential of AuNPs/BSA complexes at the optimal condition in water.

Sample	Zeta potential (mV)
Complex 1-0	23.5 ± 2.1
Complex 2-1	24.3 ± 0.4
Complex 1-1	22.1 ± 0.9
Complex 1-2	21.0 ± 1.8