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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Zeta potential (mV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complex 1-0</td>
<td>23.5 ± 2.1</td>
</tr>
<tr>
<td>Complex 2-1</td>
<td>24.3 ± 0.4</td>
</tr>
<tr>
<td>Complex 1-1</td>
<td>22.1 ± 0.9</td>
</tr>
<tr>
<td>Complex 1-2</td>
<td>21.0 ± 1.8</td>
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</tbody>
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