Reversible Photocontrol of Self-Assembled Peptide Hydrogel Viscoelasticity

Todd M. Doran, Derek M. Ryan, Bradley L. Nilsson*

Department of Chemistry, University of Rochester, Rochester, NY 14627, USA

ELECTRONIC SUPPORTING INFORMATION

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Figure S1. Chemical structure of peptide 1

Figure S2. Analytical HPLC trace (215 nm) of trans-1 in 40% acetonitrile/water (v/v)

Figure S3. Analytical HPLC trace (215 nm) of cis-1 in 40% acetonitrile/water
**Table S1.** Analytical HPLC conditions for peptide 1

<table>
<thead>
<tr>
<th>Peptide</th>
<th>Retention time (min)</th>
<th>Gradient (solution A: water/0.5%TFA; solution B: acetonitrile/0.5% TFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cis-1</td>
<td>10.1</td>
<td>Isocratic 5% B over 5 minutes, increase 5-95% B over 15 minutes, maintain at 95% B over 5 minutes</td>
</tr>
<tr>
<td>Trans-1</td>
<td>10.4</td>
<td>Isocratic 5% B over 5 minutes, increase 5-95% B over 15 minutes, maintain at 95% B over 5 minutes</td>
</tr>
</tbody>
</table>

**Figure S3.** MALDI-TOF mass spectrum of peptide 1

![MALDI-TOF mass spectrum of peptide 1](image)

**Table S2.** Calculated and observed m/z ratios for peptide 1

<table>
<thead>
<tr>
<th>Peptide</th>
<th>Calculated m/z</th>
<th>Observed m/z</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1964.0</td>
<td>1963.9</td>
</tr>
</tbody>
</table>
Figure S4. Concentration curve for peptide 1