

# Reversible Photocontrol of Self-Assembled Peptide Hydrogel Viscoelasticity

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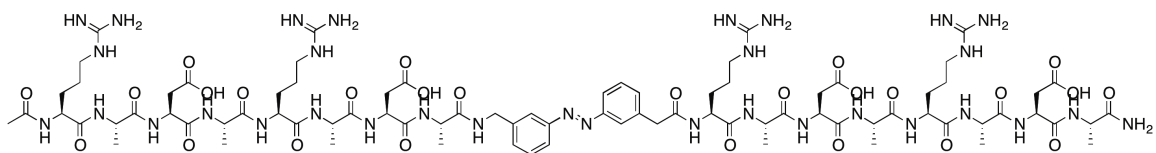
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## ELECTRONIC SUPPORTING INFORMATION

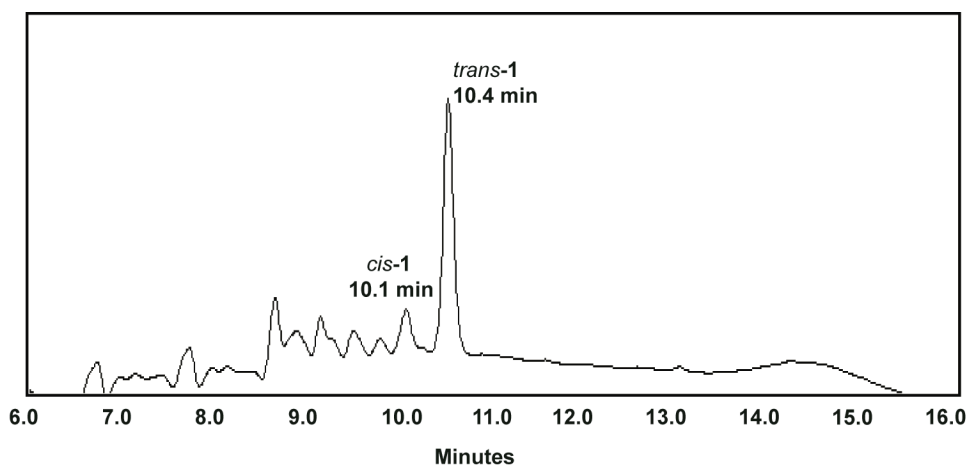
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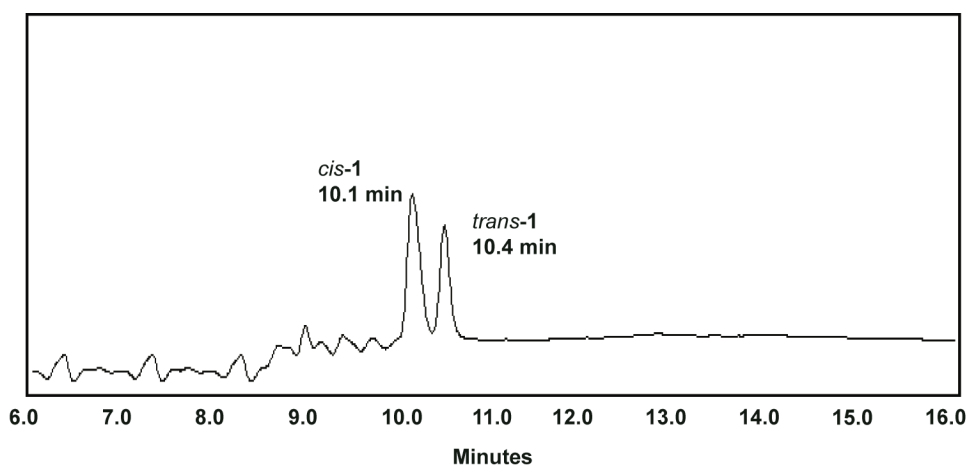
**Figure S1.** Chemical structure of peptide **1**



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



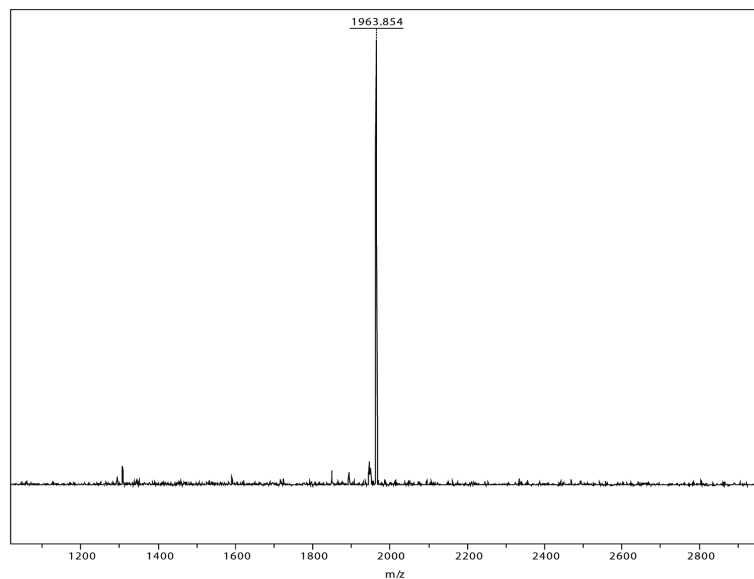
**Figure S3.** Analytical HPLC trace (215 nm) of *cis*-**1** in 40% acetonitrile/water



**Table S1.** Analytical HPLC conditions for peptide **1**

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

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



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

<b>Peptide</b>	<b>Calculated <math>m/z</math></b>	<b>Observed <math>m/z</math></b>
<b>1</b>	1964.0	1963.9

**Figure S4.** Concentration curve for peptide 1

