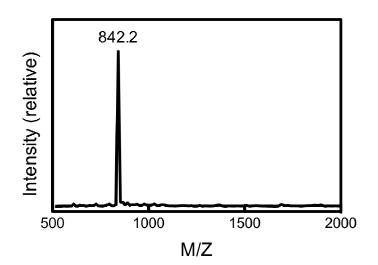
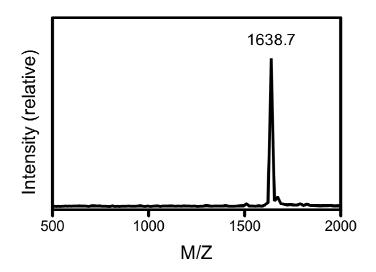
S01. MALDI-TOF for affinity peptides



A. MALDI-TOF spectra for GGGGWSHW peptide. Theoretical molecular weight = 842.8



B. MALDI-TOF spectra for KRIWFIPRSSWY peptide. Theoretical molecular weight = 1638.9

S02. Hydrodynamic radius estimates from Stokes-Einstein, in water at 20 °C.

The Stokes-Einstein diffusivity relationship can be used to calculate the effective hydrodynamic radius from protein diffusivity. Diffusivities on the order of 10^{-6} to 10^{-7} cm²/s are typically reported for proteins in aqueous solutions. For a diffusivity greater than 3.0×10^{-7} cm²/s, the estimated hydrodynamic diameter for TGF β_1 calculated from Stokes-Einstein is 160 Å similar in size or smaller than the estimated mesh size for all three PEG gels.

Diffusivity (cm ² /s)	Hydrodynamic Radius (Å)
1.00 x10 ⁻⁷	237
1.25 x10 ⁻⁷	190
1.50 x10 ⁻⁷	158
2.00 x10 ⁻⁷	119
2.25 x10 ⁻⁷	105
2.50 x10 ⁻⁷	95
3.00 x10 ⁻⁷	79
4.00 x10 ⁻⁷	59
5.00 x10 ⁻⁷	47
1.00 x10 ⁻⁶	24

S03.	Selected I	orotein molec	ular weights	and hydrod	ynamic radii*
					· · · · · · · · · · · · · · · · · · ·

Protein	Molecular Weight (Da)	Reported r _H (Å)
Bovine pancreatic trypsin inhibitor	6,500	15.8
Cytochrome C	12,000	17.8
Lysozyme	14,700	20.5
Streptokinase	47,000	30.6
Triosephosphate isomerase (dimer)	54,000	29.7

* data taken from Wilkins, D. K.; Grimshaw, S. B.; Receveur, V.; Dobson, C. M.; Jones, J. A.; Smith, L. J. *Biochemistry* 1999, *38*, 16424-16431.

S04. Swollen shear modulus for control and peptide gels. T-test showed no significant difference between moduli for control gels and gels made with either WSHW (R=10,000) or KRIWFIPRSSWY (R=10,000). Measurements made at 5 rad/s using dynamic strain sweep from 1% to 100% strain at 25 °C.

