

Table 1. Two-state data set

Protein	$\ln(k_f)$	$\ln(k_u)$	m_f kJ/mol/M	m_u kJ/mol/M	ΔG_u kJ/mol	m_{eq} kJ/mol/M	Conditions ^a
Abp1 SH3	2.46 ± 0.06	-2.72 ± 0.08	-6.36 ± 0.17	0.83 ± 0.04	13.0 ± 0.8	-6.9 ± 0.3	Phosphate/GuHCl/0.1 M NaCl
ACBP	6.96 ± 0.04	-3.86 ± 0.02	-9.74 ± 0.09	4.80 ± 0.09	23.7 ± 0.7	-13.1 ± 0.3	HEPES/GuHCl
ADAh2	6.80 ± 0.12	-0.42 ± 0.18	-3.12 ± 0.13	1.12 ± 0.05	17.1 ± 0.4	-3.9 ± 0.1	Phosphate/urea
Apo-azurin	4.91 ± 0.09	-4.02 ± 0.23	-8.03 ± 0.23	5.06 ± 0.19	29.2 ± 1.5	-17.6 ± 0.9	5 mM phosphate/GuHCl
CheW	7.44 ± 0.31	-12.05 ± 0.29	-8.92 ± 0.29	5.01 ± 0.16	50.2 ± 0.6	-14.6 ± 0.2	Phosphate/GuHCl
C12	5.75 ± 0.17	-10.33 ± 0.56	-5.70 ± 0.18	4.20 ± 0.25	32.5 ± 1.4	-8.3 ± 0.3	Phosphate/GuHCl
CTL9	3.27 ± 0.06	-7.85 ± 0.37	-3.09 ± 0.04	1.38 ± 0.10	27.2 ± 0.3	-4.4 ± 0.1	20 mM phosphate/pH 8/0.1 M NaCl/urea
EC298	9.08 ± 0.12	4.49 ± 0.61	-8.16 ± 0.27	5.95 ± 0.37	11.4 ± 1.6	-14.1 ± 1.9	Phosphate/GuHCl/T-jump
FKBP12	1.60 ± 0.09	-8.10 ± 0.29	-5.07 ± 0.14	2.20 ± 0.11	23.4 ± 0.9	-6.3 ± 0.2	Phosphate/urea
Fyn SH3	4.88 ± 0.17	-4.34 ± 0.37	-4.92 ± 0.21	1.68 ± 0.17	20.3 ± 1.4	-6.1 ± 0.4	Phosphate/GuHCl
GW1	3.98 ± 0.17	-1.66 ± 0.18	-10.12 ± 0.84	4.63 ± 0.18	15.5 ± 0.3	-13.9 ± 0.3	Phosphate/0.1 M NaCl/1mM DTT
Im7*	7.20 ± 0.05	2.34 ± 0.04	-4.68 ± 0.09	0.53 ± 0.02	11.7 ± 0.6	-4.7 ± 0.2	Tris/urea
Im9*	7.33 ± 0.02	-1.87 ± 0.05	-4.53 ± 0.01	0.26 ± 0.02	20.9 ± 0.6	-4.4 ± 0.1	Tris/urea
λ -repressor	10.38 ± 0.28	3.21 ± 0.19	-7.34 ± 0.52	2.86 ± 0.16	21.2 ± 1.9	-10.1 ± 0.4	20 mM phosphate/pH 8/GuHCl
L23	2.02 ± 0.06	-3.88 ± 0.07	-3.46 ± 0.09	1.17 ± 0.02	11.3 ± 1.1	-3.3 ± 0.5	Phosphate/urea
mAcP	-1.58 ± 0.18	-9.00 ± 0.35	-1.27 ± 0.08	4.12 ± 0.10	20.4 ± 0.2	-5.3 ± 0.5	Tris/urea
NTL9	6.55 ± 0.02	0.08 ± 0.13	-1.84 ± 0.04	0.71 ± 0.04	17.3 ± 0.2	-2.6 ± 0.0	20 mM Tris/0.1 M NaCl/urea
Protein G	6.30 ± 0.08	-1.72 ± 0.17	-7.03 ± 0.15	1.38 ± 0.12	ND	ND	HEPES/pH 7.5/GuHCl
Protein L	4.10 ± 0.09	-3.25 ± 0.10	-6.38 ± 0.19	2.08 ± 0.05	19.9 ± 0.9	-8.1 ± 0.4	Phosphate/GuHCl
raf RBD	8.36 ± 0.12	-2.77 ± 0.65	-3.39 ± 0.09	1.03 ± 0.20	26 ± 3	-4.1 ± 0.5	Phosphate/urea/1 mM DTT
S6	6.07 ± 0.21	-8.28 ± 0.49	-7.04 ± 0.28	3.13 ± 0.22	34.7 ± 0.4	-10.0 ± 0.1	Phosphate/GuHCl
Sho1 SH3	2.11 ± 0.23	-2.49 ± 0.20	-6.60 ± 0.86	3.09 ± 0.13	9.4 ± 0.9	-13.1 ± 1.1	Phosphate/GuHCl/0.1 M NaCl
Spectrin SH3	1.05 ± 0.01	-4.83 ± 0.07	-2.27 ± 0.01	0.55 ± 0.02	13.9 ± 0.3	-2.7 ± 0.1	Phosphate/urea
SrcSH2	8.74 ± 0.21	-3.48 ± 0.29	-4.25 ± 0.12	0.89 ± 0.09	31.0 ± 0.4	-5.6 ± 0.1	20 mM imidazole/0.1 mM TCEP/urea
Src SH3	4.36 ± 0.07	-1.27 ± 0.13	-4.19 ± 0.16	1.70 ± 0.07	15.9 ± 2.5	-6.7 ± 0.8	Phosphate/GuHCl
Tm1083	6.85 ± 0.59	-5.26 ± 0.44	-5.79 ± 1.08	3.28 ± 0.19	38.2 ± 0.2	-9.8 ± 0.7	Phosphate/0.1 M NaCl/GuHCl
U1A	4.62 ± 0.05 ^b	-11.72 ± 0.58 ^b	-4.75 ± 0.15 ^c	4.13 ± 0.16 ^c	34.8 ± 1.5	8.6 ± 0.7	Phosphate/GuHCl
Ubiquitin	7.33 ± 0.06	-6.84 ± 0.34	-5.66 ± 0.08	3.43 ± 0.15	34.2 ± 0.4	-9.1 ± 0.1	20 mM acetate/pH 5/GuHCl
Urm1	2.58 ± 0.04	-3.30 ± 0.08	-2.72 ± 0.07	2.04 ± 0.03	13.0 ± 1.9	-4.2 ± 0.5	Phosphate/urea
VlsE	2.03 ± 0.24	-8.47 ± 0.25	-9.27 ± 0.60	5.24 ± 0.17	23.7 ± 0.7	-14.7 ± 0.4	5 mM phosphate/urea

* Folding/unfolding rate in water estimated from extrapolation to zero denaturant. Linear extrapolations unless otherwise noted (see footnotes c and d).

^a All experiments were conducted at 25°C; Other conditions were as follows *unless otherwise noted*: 50 mM buffer, no additional salts added. Lastly, all data were collected via stopped-flow dilution experiments unless otherwise noted.

^b Extrapolated rate in water estimated using a polynomial fit (Equation 3) due to significant curvature.

^c m -Values derived from the *linear* regions of a rather curved chevron plot.