

Supporting Information

Table S1. Free energy, G , and enthalpic H and entropic TS contributions to G for different states along the folding pathways of G48V Abp1p SH3 and G48V Fyn SH3 at 43, and 17.5 °C, respectively (obtained assuming a three-state folding process). G and TS values for transition states $TS1$ and $TS2$ are calculated using the transmission coefficient $\kappa = 1.6 \cdot 10^{-7}$ (first line) and $\kappa = 1$ (second line). The U state is taken as the reference. Parameters for G48V Fyn SH3 are reproduced from Korzhnev et al. (*I*) and are listed for comparison.

G48V (E7L/V21K/N23G) Abp1 SH3 (43 °C)					
Energy [kcal/mol]	U	$TS1$	I	$TS2$	F
H	0	3.26 ± 1.96	-5.02 ± 1.55	-4.63 ± 1.74	-35.26 ± 1.30
TS	0	-1.45 ± 1.95	-5.59 ± 1.54	-9.33 ± 1.73	-33.00 ± 1.30
G	0	-11.28 ± 1.95		-19.16 ± 1.73	
		4.72 ± 0.03	0.57 ± 0.03	4.70 ± 0.01	-2.26 ± 0.02
		14.54 ± 0.03		14.52 ± 0.01	
G48V Fyn SH3 (17.5 °C)					
Energy [kcal/mol]	U	$TS1$	I	$TS2$	F
H	0	9.25 ± 0.98	-7.40 ± 0.49	6.09 ± 0.64	-6.75 ± 0.25
TS	0	5.36 ± 1.00	-7.81 ± 0.49	2.12 ± 0.64	-4.91 ± 0.24
G	0	-3.67 ± 1.00		-6.91 ± 0.64	
		3.89 ± 0.04	0.41 ± 0.04	3.96 ± 0.02	-1.84 ± 0.01
		12.92 ± 0.04		13.00 ± 0.02	

References

1. Korzhnev, D.M., Salvatella, X., Vendruscolo, M., Di Nardo, A.A., Davidson, A.R., Dobson, C.M., and Kay, L.E. (2004) Low-populated folding intermediates of Fyn SH3 characterized by relaxation dispersion NMR. *Nature* *430*, 586-590.