

Supplementary Table 1 Comparison of parameters obtained from the global fitting with those obtained from the Im7 mutants that mimic the Im7 folding pathway states

	Values from global fitting of kinetic data			Values from Im7 mimic mutants		
	Im7 _U	Im7 _I	Im7 _N	Im7-L18AL19AL37A ^a	Im7-L53AI54A ^b	Im7-WT
K _d (μM)	4.7 ± 1.1	4.7 ± 0.9	30.6 ± 4.1	10.4 ± 0.2	3.5 ± 0.1	20.5 ± 2.1
Relative fluorescence unbound ^c	2.10 ± 0.07	3.07 ± 0.12	1 ± 0.01	1.91	2.98	1
Relative fluorescence bound ^c	2.32 ± 0.08	3.07 ± 0.12	1.17 ± 0.04	2.35	2.98	1.24

^aMimics Im7_U

^bMimics Im7_I

^cNormalized to unbound Im7_N or unbound Im7-WT