

Table S1: Values of model-free parameters for PLCC SH2-pY1021 arginine N^ε

	S ²	std	τ _e (ns)	std	τ _s (ns)	std	S _f ²	std	χ ²
Arg 18	0.72	0.01							1.376
Arg 27	0.26	0.04	0.08	0.24					1.883
Arg 37	0.80	0.01							1.467
Arg 39	0.68	0.03	0.08	0.03					0.043
Arg 50	0.59	0.04			1.31	0.35	0.79	0.22	0.000
Arg 59	0.31	0.01			0.11	0.11	0.83	0.12	0.063
Arg 91	0.37	0.02	0.07	0.30					4.659
Arg 96	0.27	0.03	0.08	0.07					0.661

S² (square of the order parameter); τ_e (single internal correlation time [Lapari-Szabo, 1982 a,b]); τ_s (internal correlation time for the slower of two internal motions [Clore et al., 1990 a,b]); S_f² (square of the order parameter for the faster of two internal motions [Clore et al., 1990 a,b]); std (standard deviation of the specified parameter); χ² (goodness of fit parameter). Data for Arg 30 could not be fit by any of the models. R_{ex} terms were not required.