

Supplementary Material

Effects of pseudophosphorylation mutants on the structural dynamics of smooth muscle myosin regulatory light chain

L. Michel Espinoza-Fonseca, Brett A. Colson and David D. Thomas

Department of Biochemistry, Molecular Biology and Biophysics, University of Minnesota, Minneapolis, MN 55455, USA

Table S1. Comparison of χ^2 values obtained from single and two Gaussian fits of C α -C α distance histograms.

	Distance pair	χ^2	
		Two Gaussian	One Gaussian
Unphosphorylated	S2-M129	0.0018	0.0050
	K3-M129	0.0014	0.0044
	A7-M129	0.0011	0.0038
Phosphorylated	S2-M129	0.0020	0.0070
	K3-M129	0.0043	0.0082
	A7-M129	0.0024	0.0050
S19E	S2-M129	0.0022	0.0440
	K3-M129	0.0028	0.0440
	A7-M129	0.0033	0.0380
T18D/S19D	S2-M129	0.0005	0.0072
	K3-M129	0.0004	0.0070
	A7-M129	0.0005	0.0036
T18E/S19E	S2-M129	0.0008	0.0035
	K3-M129	0.0009	0.0035
	A7-M129	0.0041	0.0013