

Typical example for estimating parameters:

Para_Estim MG Probabilistic Thin Filament Regulation

Parameter Estimation - MG Prob

Total Time [s]: Fitting Guess1 of Param Lower Bound Upper Bound

Kb: kb:

Kt:

kt:

k1+ [1/(M*s)]:

k1-:

k2+:

k2-:

[Actin] in uM: Epsilon: Number of Iteration:

Type of Simulation: Time Course Titration

Experimental Data File:

Output File Name:

Initial [Myosin] in uM: Error File:

Final [Myosin] in uM: Sensitivity Matrix File:

Output Parameter File:

Results

Parameters Estimated:

	Last	Average	Standard Deviation
Kb:	4.3991E+00	4.5136E+00	1.7615E-01
Kt:	2.2790E-02	2.2671E-02	4.2160E-04
k1+:	1.6896E+06	1.6898E+06	1.0914E+02
k2+:	5.0000E+03	5.0000E+03	6.6066E-05
Error:	6.5770E-05	0.0000E+00	6.6097E-05

Sensitivity Matrix is:

0.99993205	-0.00027087	0.00001901	0.
-0.00027087	0.99006922	-0.00023617	0.
0.00001901	-0.00023617	0.99997309	0.
0.	0.	0.	0.

