

F-Actin

Catalogue-Number: 850010	F-Actin, 1mg
Catalogue-Number: 850050	F-Actin, 5 mg

Organism:

White New Zealand Rabbit

Description:

Isolated from skeletal muscle of white new Zealand rabbits according to the methods described by Pardee et al. 1982 and modified according to Kron et al. 1991.

Product Specification

F-Actin (MW 43.000 Dalton) is stored in AP-buffer containing 50 mM KCL, 1 mM MgCl₂ and 1 mM ATP; for stabilization, 0.02 % NaN₃ is added.

F-Actin concentration in this solution is 10 mg/ml.

Quality Control

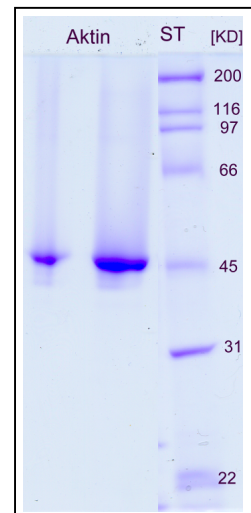
Each batch of F-Actin is thoroughly tested after production for purity by SDS-Page. The F-Actin produced by CLS shows one band at MWt 43.000 Dalton. Additionally, each batch of Actin filaments is controlled for its movement over a myosin decorated surface in a motility assay as described by Uttenweiler et al., 2000.

Stability and Storage

We recommend storing F-Actin refrigerated on ice (at 0-4°C). If kept under these conditions, it is stable for about 6 months.

F-Actin and G-Actin on request from CLS

CLS can deliver varying amounts of actin depending on your needs. Just give us a call. Actin may be ordered as **G-Actin** on request.



References:

Uttenweiler, D., Veigel, C., Steubing, R., Götz, C., Mann, S., Haussecker, H., Jähne, B. and Fink, R.H.A. Motion determination in actin filament fluorescence images with a spatio-temporal orientation analysis. *Biophys. J.* 78: 2709-2715 (2000)

Pardee, J.D. and Spudich, J.A. Purification of muscle actin. *Methods Enzymology* 85B:164-181 (1982)

Kron, S.J., Y.Y. Toyoshima, T.Q.R. Uyeda & J.A. Spudich., Assays for actin sliding movement over myosin-coated surfaces., *Meth. Enzym.* 196, 399 –416, 1991