

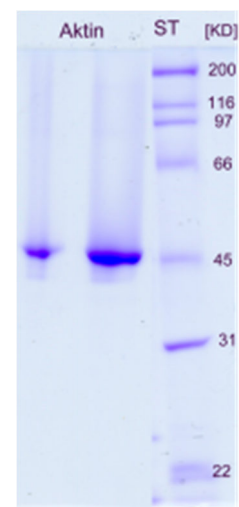


Designation: F-Actin

CLS order number: 850010: 1mg
850050: 5 mg

Organism:	White New Zealand Rabbit
Tissue:	Skeletal muscle
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.

MWt	43.000 Dalton
Product Specification	F-Actin is stored in AP-buffer containing 50 mM KCL, 1 mM MgCl ₂ and 1 mM ATP; f or stabilization, 0,02 % NaN ₃ 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 shows one band at MWt 43.000 Dalton. Additionally, each batch of Actin filaments is controlled for its movement over a myosin coated surface in a motility assay as described by Uttenweiler et al., 2000.
Stability and Storage	We recommend storing F-Actin refrigerated on ice (at 2-4°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 F-actin depending on your needs. Just give us a call.
Actin may be ordered as G-Actin on request.

Notes: Although this material has been tested thoroughly, the user should treat it as potential biohazardous. Protective cloathing and eyewear are recommended.

References:
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. Enzymol.* 196, 399 –416, 1991.
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.

This product is for research use only. Not intended for any therapeutic or diagnostic use.

