CFL1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	CFL1, Recombinant Protein
Full Product Name	CFL1
Product Gene Name	CFL1 recombinant protein
Molecular Weight	18,502 Da
OMIM	601442
3D Structure	ModBase 3D Structure for P23528
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CFL1 recombinant protein	MBS8506681 is a recombinant protein targeting CFL1.
Other Notes	Small volumes of CFL1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CFL1. It may not necessarily be applicable to this product.

NCBI GI #	116848
NCBI GeneID	1072
NCBI Accession #	P23528.3
UniProt Primary Accession #	P23528
UniProt Secondary Accession #	Q53Y87; Q9UCA2; B3KUQ1
UniProt Related Accession #	P23528
NCBI Official Full Name	Cofilin-1
NCBI Official Synonym Full Names	cofilin 1
NCBI Official Symbol	CFL1
NCBI Official Synonym Symbols	CFL; cofilin; HEL-S-15
UniProt Protein Name	Cofilin-1
UniProt Synonym Protein Names	18 kDa phosphoprotein; p18; Cofilin, non-muscle isoform
Protein Family	Cofilin
UniProt Gene Name	CFL1
UniProt Synonym Gene Names	CFL; p18
NCBI Protein Information	cofilin-1

NCBI Summary for CFL1	The protein encoded by this gene can polymerize and depolymerize F-actin and G-actin in a pH-dependent manner. Increased phosphorylation of this protein by LIM kinase aids in Rho-induced reorganization of the actin cytoskeleton. Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus.[supplied by OMIM, Apr 2004]
UniProt Comments for CFL1	Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity. Regulates actin cytoskeleton dynamics. Important for normal progress through mitosis and normal cytokinesis. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required for the up-regulation of atypical chemokine receptor ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation (PubMed:11812157, PubMed:15580268, PubMed:21834987, PubMed:23633677). Required for neural tube morphogenesis and neural crest cell migration ().
Research Articles on CFL1	**1.** NKCC1 not only controls cell volume and Cl- concentration, but it can also regulate the actin cytoskeleton through Cofilin 1.
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