

Recombinant Human CFL2

Cat. No. CFL2-26779TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cofilin 2 with N terminal proprietary tag; Predicted MWt 44.33 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	166 amino acids
Description	<p>This gene encodes an intracellular protein that is involved in the regulation of actin-filament dynamics. This protein is a major component of intranuclear and cytoplasmic actin rods. It can bind G- and F-actin in a 1:1 ratio of cofilin to actin, and it reversibly controls actin polymerization and depolymerization in a pH-dependent manner. Mutations in this gene cause nemaline myopathy type 7, a form of congenital myopathy. Alternative splicing results in multiple transcript variants.</p>
Molecular Weight	44.330kDa inclusive of tags
Tissue specificity	Isoform CFL2b is expressed predominantly in skeletal muscle and heart. Isoform CFL2a is expressed in various tissues.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MASGVTVNDEVIKVFNDMKVSRKSSSQEEIKRKKAVLFCL SDDKRQIIVEEAKQILVG DIGDTVEDPYTSFVKLLPLNDC RYALYDATYETKESKKEDLVFIFWAPESAPLKSAMI YASS KDAIKKKFTGIKHEWQVNGLDDIKDRSTLGEKLGGNVVVS LEGKPL
Sequence Similarities	Belongs to the actin-binding proteins ADF family. Contains 1 ADF-H domain.
GENE INFORMATION	
Gene Name	CFL2 cofilin 2 (muscle) [Homo sapiens]
Official Symbol	CFL2
Synonyms	CFL2; cofilin 2 (muscle); cofilin-2;
Gene ID	1073
mRNA Refseq	NM_001243645
Protein Refseq	NP_001230574
MIM	601443
Uniprot ID	Q9Y281
Chromosome Location	14q13.2

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Pathway

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem;

Function

actin binding; protein binding;

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