

## Recombinant Human CFL1, His-tagged

Cat. No. CFL1-11142H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CFL1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-166a.a.
<b>Description</b>	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]
<b>Source</b>	E.coli
<b>Species</b>	Human
<b>Tag</b>	His
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

## GENE INFORMATION

**Gene Name** CFL1 cofilin 1 (non-muscle) [ Homo sapiens ]

**Official Symbol** CFL1

**Synonyms** CFL1; cofilin 1 (non-muscle); CFL; cofilin-1; p18; 18 kDa phosphoprotein; cofilin, non-muscle isoform;

**Gene ID** 1072

**mRNA Refseq** NM\_005507

**Protein Refseq** NP\_005498

**MIM** 601442

**UniProt ID** P23528

**Chromosome Location** 11q13.1

**Pathway** Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem;

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**Function**

actin binding; protein binding;

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