

# Recombinant Human CFL1

**Cat. No.** CFL1-26778TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Cofilin with 25 kDa proprietary tag produced in <i>Saccharomyces cerevisiae</i> ; amino acids 1-166; 166 amino acids, MWt 18.5kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	1-166 a.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.
<b>Tissue specificity</b>	Widely distributed in various tissues.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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<b>Sequences of amino acids</b>	MASGVAVSDGVIVKFVNDMKVRKSSTPEEVKKRKKAVLFCL SEDKKNIIILEEGKEILVG DVGQTVDDPYATFVKMLPDK DCRYALYDATYETKESKKEDLVFIFWAPESAPLKSK MIYASSKDAIKKLTGIKHELQANCYEEVKDRCTLAEKLGGS AVISLEGKPL
<b>Sequence Similarities</b>	Belongs to the actin-binding proteins ADF family.Contains 1 ADF-H domain.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">CFL1</a> <a href="#">cofilin 1 (non-muscle)</a> [ <a href="#">Homo sapiens</a> ]
<b>Official Symbol</b>	<a href="#">CFL1</a>
<b>Synonyms</b>	<a href="#">CFL1</a> ; <a href="#">cofilin 1 (non-muscle)</a> ; <a href="#">CFL</a> ; <a href="#">cofilin-1</a> ;
<b>Gene ID</b>	<a href="#">1072</a>
<b>mRNA Refseq</b>	<a href="#">NM_005507</a>
<b>Protein Refseq</b>	<a href="#">NP_005498</a>
<b>MIM</b>	<a href="#">601442</a>
<b>Uniprot ID</b>	<a href="#">P23528</a>
<b>Chromosome Location</b>	11q13.1
<b>Pathway</b>	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CDC42 signaling events, organism-

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specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem;

**Function**

actin binding; protein binding;

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