# Recombinant Human Cofilin 1 (non-muscle), His-tagged

**Cat. No.** CFL1-1580H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant full-length human CFL1 was expressed in E. coli cells using an N-terminal His tag. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | Cofilin 1 (non-muscle), also known as CFL1, 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. CFL1 processed proteins are most probably produced by HIV-1 protease digestion. |
| **Applications** | Western Blot |
| **Molecular Weight** | 23 kDa |
| **Expression System** | E. coli |
| **Form** | Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 2 mM DTT, 25 % glycerol. |
| **Purity** | > 95 % |
| **Concentration** | 0.2 ug/ul |

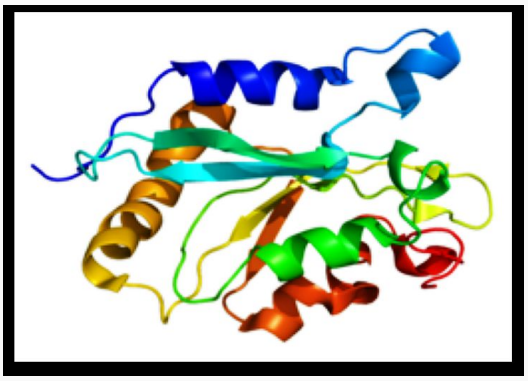
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Sequences** | Full-length |
| **Storage** | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| **Pathways** | Axon guidance; CDC42 signaling events; CXCR4-mediated signaling events; Fc gamma R-mediated phagocytosis; Formation of Platelet plug; G13 Signaling Pathway; Hemostasis; Pertussis; Platelet Activation; RAC1 signaling pathway; Regulation of Actin Cytoskeleton; RhoA signaling pathway; Sema3A PAK dependent Axon repulsion; Semaphorin interactions |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | CFL1 cofilin 1 (non-muscle) [ Homo sapiens ] |
| **Official Symbol** | CFL1 |
| **Synonyms** | CFL1; cofilin 1 (non-muscle); CFL; cofilin-1; p18; OTTHUMP00000233679; OTTHUMP00000233680; OTTHUMP00000233681; OTTHUMP00000233682; OTTHUMP00000233740; OTTHUMP00000233741; OTTHUMP00000233742; 18 kDa phosphoprotein; Cofilin-1, non-muscle isoform; Cofilin-1 |
| **Gene ID** | 1072 |
| **mRNA Refseq** | NM_005507 |
| **Protein Refseq** | NP_005498 |
| **MIM** | 601442 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **UniProt ID** | P23528 |
| **Chromosome Location** | 11q13 |
| **Function** | actin binding; protein binding |
| **PDB rendering based on 1q8g.** |  |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA