

# Human CFL1 / N-cofilin Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 14544-H07E

## General Information

### Gene Name Synonym:

CFL; HEL-S-15

### Protein Construction:

A DNA sequence encoding the human CFL1 (P23528) (Met1-Leu166) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** His

### Molecular Mass:

The recombinant human CFL1 consists of 181 amino acids and predicts a molecular mass of 20.3 KDa. It migrates as an approximately 21 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, 10% Glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

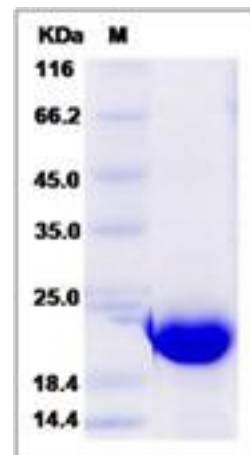
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

CFL1, also known as n-cofilin, is a member of the ADF/Cofilin family. This family comprises three genes: CFL1, CFL2 and DSTN (destrin). ADF/Cofilin family members bind G-actin monomers and depolymerize actin filaments through two mechanisms: severing and increasing the off-rate for actin monomers from the pointed end. Cofilin also binds with other proteins such as myosin, tropomyosin,  $\alpha$ -actinin, gelsolin and scruin. These proteins compete with cofilin for actin binding. Cofilin also plays a role in innate immune response. CFL1 contains 1 ADF-H domain and is widely distributed in various tissues. It is important for normal progress through mitosis and normal cytokinesis.

## References

1.Lappalainen P. et al., 1997, Nature. 388 (6637): 78-82. 2.Ichetovkin I. et al., 2000, Cell Motil. 45 (4): 293-306. 3.Carlier MF. et al., 1997, J Cell Biol. 136 (6): 1307-22.

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