

Recombinant human Cofilin 1/CFL1 protein

Catalog Number: COF0701

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-166aa

UniProt No.

P23528

NCBI Accession No.

NP_005498

Alternative Names

18 kDa phosphoprotein(p18), CFL, CFL1, Cofilin 1, Cofilin 1 non muscle, Cofilin non muscle isoform, P18

PRODUCT SPECIFICATION

Molecular Weight

20kDa (186aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Cofilin is a family of actin-binding proteins which disassembles actin filaments. It 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. Recombinant human Cofilin, fused to His-tag at N-terminus, was expressed

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in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MASGVAVSDG VIKVFNDMKV RKSSTPEEVK KRKKAVLFCL SEDKKNIILE
EGKEILVGDV GQTVDDPYAT FVKMLPDKDC RYALYDATYE TKESKKEDLV FIFWAPESAP LSKSMIYASS KDAIKKKLTG
IKHELQANCY EEVKDRCTLA EKLGGSAVIS LEGKPL

General References

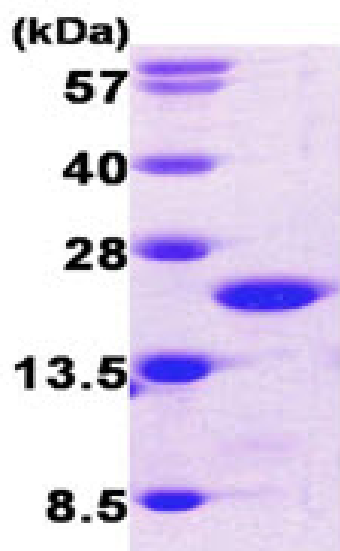
Mannherz H.G., et al (2007). J. Mol. Biol. 366 (3)745-755.

Olsen J.V., et al (2006). Cell. 127(3)635-648

Yang N., et al (1998) Nature. 393(6687)809-812

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)