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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)

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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

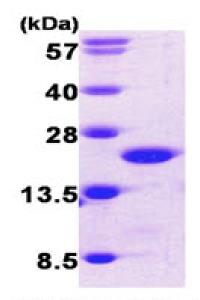
MGSSHHHHHH SSGLVPRGSH MASGVAVSDG VIKVFNDMKV RKSSTPEEVK KRKKAVLFCL SEDKKNIILE EGKEILVGDV GQTVDDPYAT FVKMLPDKDC RYALYDATYE TKESKKEDLV FIFWAPESAP LKSKMIYASS KDAIKKKLTG IKHELQANCY EEVKDRCTLA EKLGGSAVIS LEGKPL

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





15% SDS-PAGE (3ug)

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

