

Cofilin 1, Non Muscle (CFL1) Active Protein | CFL1 active protein

Active Cofilin 1, Non Muscle (CFL1)

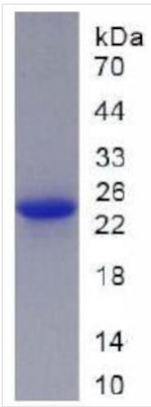
CATALOG # AAA149246	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Cofilin 1; Non Muscle (CFL1); Active Cofilin 1; CFL; p18; N-Cofilin; 18 kDa phosphoprotein; CFL1 active protein

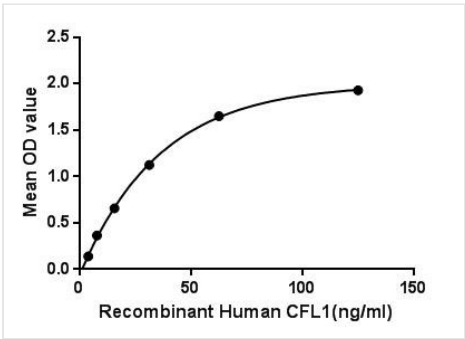
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>90%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 250ug/mL (varies by lot)
Applicable Applications for CFL1 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Ser3~Leu161
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	8.5
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE

Sample: Active recombinant CFL1, Human



Bioactivity

Cofilin 1 (non-muscle; n-cofilin), also known as CFL1, is a human gene, part of the ADF/cofilin family. 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. Besides, Actin Beta (ACTb) has been identified as an interactor of CFL1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CFL1 and recombinant human ACTb. Briefly, CFL1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ACTb-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-CFL1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of CFL1 and ACTb was shown in Figure 1, and this effect was in a dose dependent manner. Figure 1. The binding activity of CFL1 with ACTb.

SGVAVSDG VIKVFNDMKV RKSSTPEEVK KRKKAVLFCL SEDKKNIIIE
EGKEILVGDV GQTVDDPYAT FVKMLPKDKC RYALYDATYE TKESKKEDLV
FIFWAPESAP LKSKMIYASS KDAIKKKLTG IKHELQANCY EEVKDRCTLA
EKLGGSAVIS L

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for CFL1 active protein	Signal transduction; Metabolic pathway; Neuroscience; Bone metabolism
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5031635
NCBI GeneID	1072
NCBI Accession #	NP_005498.1
NCBI GenBank Nucleotide #	NM_005507.3
UniProt Accession #	P23528
Molecular Weight	Predicted Molecular Mass: 21.6kDa Accurate Molecular Mass: 24kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	cofilin-1
NCBI Official Synonym Full Names	cofilin 1
NCBI Official Symbol	CFL1
NCBI Official Synonym Symbols	CFL; cofilin; HEL-S-15
NCBI Protein Information	cofilin-1
UniProt Protein Name	Cofilin-1

UniProt Gene Name	CFL1
UniProt Synonym Gene Names	CFL; p18
UniProt Entry Name	COF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/cofilin-1-non-muscle-cfl1/149246>