Recombinant human Coactosin-like Protein 1/COTL1 protein

Catalog Number: ATGP0858

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-142aa

UniProt No.
Q14019

NCBI Accession No.
NP_066972.1

Alternative Names
Coactosin like F-actin binding protein 1, Coactosin-like 1 (Dictyostelium), Coactosin-like F-actin binding protein 1, CLP

PRODUCT SPECIFICATION

Molecular Weight
18.1 kDa (162aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

Purity
> 90% by SDS-PAGE

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
COTL1 is one of the numerous actin-binding proteins which regulate the actin cytoskeleton. This protein binds F-actin, and also interacts with 5-lipoxygenase, which is the first committed enzyme in leukotriene biosynthesis. COTL1 Binds to F-actin in a calcium-independent manner and has no direct effect on actin depolymerization. Recombinant human COTL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

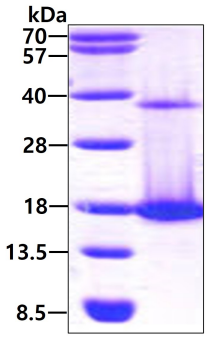
<MGSSHHHHHH SSGLVPRGSH> MATKIDKEAC RAAYNLVRDD GSAVIWVTFK YDGSTIVPGE QGAEYQHFIQ QCTDDVRLFA FVRFTTGDAM SKRSKFALIT WIGENVSGLQ RAKTGTDKTL VKEVVQNFAK EFVISDRKEL EEDFIKSELK KAGGANYDAQ TE

General References

Rakonjac M., et al. (2006) Proc Natl Acad Sci u S A. 103(35):13150-5.
Provost P., et al. (2001) Biochem J. 359(2):255-63.

DATA

SDS-PAGE



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