

# 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.

# Recombinant human Coactosin-like Protein 1/COTL1 protein

Catalog Number: ATGP0858

## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MATKIDKEAC RAYNLVRDD GSAVIWVTFK YDGSTIVPGE QGAEQHFIQ  
QCTDDVRLFA FVRFTTGDM SKRSKFALIT WIGENVSLQ RAKTGTDKTL VKEVVQNFQK EFVISDRKEL EEDFIKSELK  
KAGGANYDAQ TE

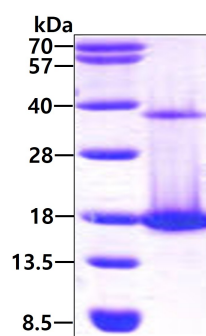
## General References

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



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.