

# Recombinant human ARF4L/ARL4D protein

Catalog Number: ATGP1252

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-201aa

### UniProt No.

P49703

### NCBI Accession No.

NP\_001652

### Alternative Names

ADP-ribosylation factor-like protein 4D, ARF4L, ADP ribosylation factor like GTPase 4D

## PRODUCT SPECIFICATION

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### Molecular Weight

24.3 kDa (221aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM 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

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### Description

ARL4D (ADP-ribosylation factor-like protein 4D) is a developmentally regulated member of the ADP-ribosylation factor/ARF-like protein (ARF/ARL) family of Ras-related GTPases. Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP). This protein may play a role in membrane-associated intracellular trafficking. Mutations in this gene have been associated with Bardet-Biedl syndrome (BBS). Recombinant human ARL4D protein, fused to His-tag at N-terminus, was expressed in E. coli and purified

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by using conventional chromatography techniques.

## Amino acid Sequence

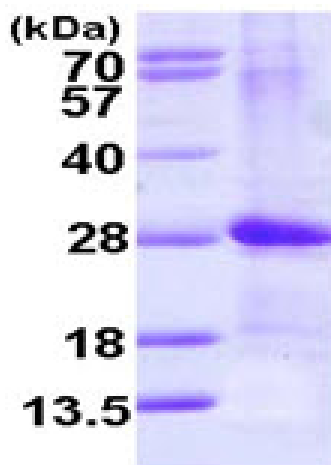
MGSSHHHHHH SGLVPRGSH MGNHLTEMAP TASSFLPHFQ ALHVVVIGLD SAGKTSLLYR LKFKEFVQSV PTKGFNTEKI  
RVPLGGSRGI TFQVWDVGGQ EKLRLWRSY TRRTDGLVFV VDAAEAERLE EAKVELHRIS RASDNQGPV LVLANKQDQP  
GALSAAEVEK RLAVRELAAL TLTHVQGCSA VDGLGLQQGL ERLYEMILKR KKAARGGKKR R

## General References

Li CC, et al. (2007) Mol Biol Cell. 18(11):4420-37.  
Hofmann I., et al (2007) Curr. Biol. 17:711-716

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)