# Recombinant human ARF4L/ARL4D protein

Catalog Number: ATGP1252

## PRODUCT INFORMATION

**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

**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

**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**

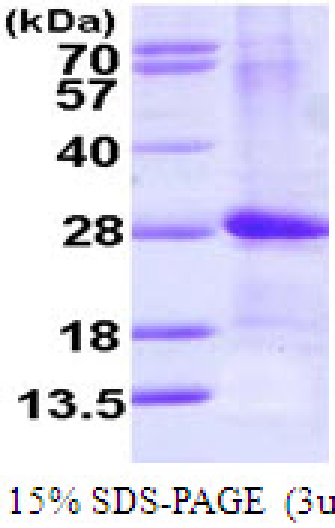
MGSSHHHHHH SSGLVPRGSH MGNHLTEMAP TASSFLPHFQ ALHVVVIGLD SAGKTSLLYR LKFKEFVQSV PTKGFNTEKI RVPLGGSRGI TFQVWDVGGQ EKLRPLWRSY TRRTDGLVFV VDAAEAERLE EAKVELHRIS RASDNQGVPV LVLANKQDQP GALSAAEVEK RLAVRELAAA TLTHVQGCSA VDGLGLQQGL ERLYEMILKR KKAARGGKKR R

**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**




15% SDS-PAGE (3ug)

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