

# Recombinant human ARFL1/ARL1 protein

Catalog Number: ATGP0660

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-181aa

**UniProt No.**

P40616

**NCBI Accession No.**

NP\_001168

**Alternative Names**

ARFL1, ADP-ribosylation factor-like protein 1, ADP ribosylation factor like GTPase 1

## PRODUCT SPECIFICATION

**Molecular Weight**

22.5 kDa (201aa) confirmed by MALDI-TOF

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 100mM NaCl, 2mM DTT

**Purity**

> 95% 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**

ADP-ribosylation factor-like protein 1 (ARL1) belongs to the ARL (ADP-ribosylation factor-like) family of proteins, which are structurally related to ADP-ribosylation factors (ARFs). ARFs, described as activators of cholera toxin (CT) ADP-ribosyltransferase activity, regulate intracellular vesicular membrane trafficking, and stimulate a phospholipase D (PLD) isoform. Although, ARL proteins were initially thought not to activate CT or PLD, later work showed that they are weak stimulators of PLD and CT in a phospholipid dependent manner. Recombinant human ARL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGGFFSSIFS SLFGTREMRI LILGLDGAGK TTILYRLQVG EVVTTIPTIG FNVETVYKN  
LKFQVWDLGG QTSIRPYWRC YYSNTDAVIY VVDSCDRDRI GISKSELVAM LEEEELRKAI LVVFANKQDM EQAMTSSEMA  
NSLGLPALKD RKWQIFKTSa TKGtGLDEAM EWLvETLKSR Q

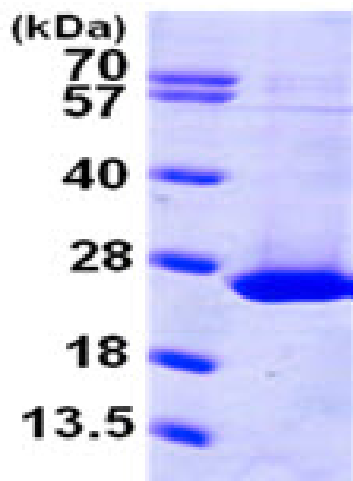
### General References

Nishimoto-Morita K., et al. (2009) J. Biol. Chem 284(16):10583-92

Van Valkenburgh H., et al. (2001) J. Biol. Chem. 276:22826-22837

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)