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

chromatography techniques.

Amino acid Sequence

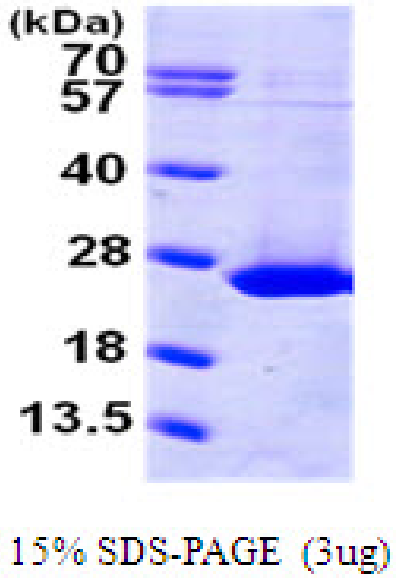
MGSSHHHHHH SSGLVPRGSH MGGFFSSIFS SLFGTREMRI LILGLDGAGK TTILYRLQVG EVVTTIPTIG FNVETVTYKN LKFQVWDLGG QTSIRPYWRC YYSNTDAVIY VVDSCDRDRI GISKSELVAM LEEEELRKAI LVVFANKQDM EQAMTSSEMA NSLGLPALKD RKWQIFKTSA TKGTGLDEAM EWLVETLKSR Q

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



15% SDS-PAGE (3ug)

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