

Recombinant human BBS3/ARL6 protein

Catalog Number: ATGP1084

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-186aa

UniProt No.

Q9H0F7

NCBI Accession No.

NP_115522

Alternative Names

ADP-ribosylation factor-like protein 6, BBS3, MGC32934, RP55, ADP ribosylation factor like GTPase 6, Bardet-Biedl syndrome 3 protein

PRODUCT SPECIFICATION

Molecular Weight

23.2 kDa (206aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.2M NaCl,5mM DTT

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

ARL6, also known ADP-ribosylation factor-like protein 6, belongs to the ARF family of GTP-binding proteins. This protein is known to play essential roles in modulating membrane trafficking and cytoskeletal functions. Mutation in ARL6 causes Bardet-Biedl syndrome (BBS3). BBS is a pleiotropic genetic disorder characterized by obesity, photoreceptor degeneration, polydactyly, hypogenitalism, renal abnormalities and developmental delay. Recombinant human ARL6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGLLDRLSVL LGLKKKEVHV LCLGLDNSGK TTIINKLKPS NAQSQNILPT IGLFSIEKFKS
SSLSFTVFDL SGQGRYRNLW EHYYKEGQAI IFVIDSSDRL RMVVAKEELD TLLNHPDIKH RRIPILFFAN KMDLRDAVTS
VKVSQLLCLE NIKDKPWHIC ASDAIKGEGL QEGVDWLQDQ IQTVKT

General References

Wiens CJ. et al. (2010) J Biol Chem. 285:16218-30.

Chiang AP. et al. (2004) Am J Hum Genet. 75: 475-84.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)