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 abnor-malities 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

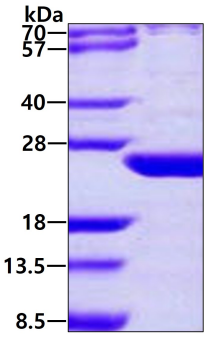
<MGSSHHHHHH SSGLVPRGSH> MGLLDRLSVL LGLKKKEVHV LCLGLDNSGK TTIINKLKPS NAQSQNILPT IGFSIEKFKS SSLSFTVFDM SGQGRYRNLW EHYYKEGQAI IFVIDSSDRL RMVVAKEELD TLLNHPDIKH RRIPILFFAN KMDLRDAVTS VKVSQLLCLE NIKDKPWHIC ASDAIKGEGL QEGVDWLQDQ IQTVKT

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.