

Recombinant human ARF7/ARL14 protein

Catalog Number: ATGP1219

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-192aa

UniProt No.

Q8N4G2

NCBI Accession No.

NP_079323

Alternative Names

ADP-ribosylation factor-like protein 14, ARF7, ADP ribosylation factor like GTPase 14, ADP-ribosylation factor 7

PRODUCT SPECIFICATION

Molecular Weight

23.7 kDa (212aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 200mM NaCl, 1mM EDTA

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

ARL14 (ADP-ribosylation factor-like 14) is a developmentally regulated member of the ADP-ribosylation factor/ARF-like protein (ARF/ARL) family of Ras-related GTPases. MHC class II molecules (MHC-II) present peptides to T helper cells to facilitate immune responses and are strongly linked to autoimmune diseases. MHC-II transport was controlled by the GTPase ARL14/ARF7, which recruits the motor myosin 1E via an effector protein ARF7EP. Recombinant human ARL14 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MGSLGSKNPQ TKQAQVLLG LDSAGKSTLL YKLKLAQDIT TIPTIGFNVE MIELERNLSL TVWDVGGQEK MRTVWGCYCE NTDGLVYVVD STDKQRLEES QRQFEHILKN EHIKNVPVVL LANKQDMPGA LTAEDITRMF KVKKLCSDRN WYVQPCCALT GEGLAQGFRK LTGFVKSHMK SRGDTLAFFK QN

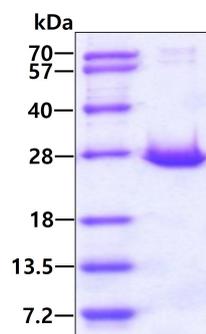
General References

Paul P, et al. (2011) Cell. 145(2):268-83.

Imami K., et al. (2008) Anal. Sci. 24:161-166

DATA

SDS-PAGE



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