

AR50044PU-S

Human ARL14 / ARF7 (1-192, His-tag) - Purified

Alternate names:

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

Quantity:

0.1 mg

Concentration:

0.25mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q8N4G2](#)

NCBI:

[NP_079323](#)

GeneID:

[80117](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 200mM NaCl, 1mM EDTA

Description:

Recombinant human ARL14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSLGSKNPQ TKQAQVLLLG LDSAGKSTLL YKLKLAkdIT
TIPTIGFNVE MIELERNLSL TVWDVGGQEK MRTVWGCYCE NTDGLVYVVD STDKQRLEES
QRQFEHILKN EHIKNVPVVL LANKQDMPGA LTAEDITRMF KVKKLCSDRN WYVQPCCALT
GEGLAQGFRK LTGFVKSHMK SRGDTLAFFK QN

Molecular weight: 23.8 kDa (212aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Paul P, et al. (2011) Cell. 145(2):268-83. Imami K., et al. (2008) Anal. Sci. 24:161-166

Pictures:

