

Recombinant human RhoQ protein

Catalog Number: ATGP2081

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-202aa

UniProt No.

P17081

NCBI Accession No.

NP_036381

Alternative Names

Rho-related GTP-binding protein RhoQ, ras homolog family member Q, RAS-like, family 7 member A, RASL7A, Ras-like protein TC10, ARHQ

PRODUCT SPECIFICATION

Molecular Weight

24.7 kDa (225aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 85% 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

RHOQ, also known as rho-related GTP-binding protein RhoQ, is a small signaling G protein (more specifically a GTPase), and is a member of the Rac subfamily of the family Rho family of GTPases. It involved in epithelial cell polarization processes. It may play a role in CFTR trafficking to the plasma membrane. It causes the formation of thin, actin-rich surface projections called filopodia. Recombinant human RhoQ protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMAGPGA LMLKCVVVD GAVGKTCLLM SYANDAFPEE YVPTVFDHYA
VSVTVGGKQY LLGLYDTAGQ EDYDRLRPLS YPMTDVFLIC FSVVNPASFQ NVKEEWVPEL KEYAPNVPFL LIGTQIDLRD
DPKTLARLND MKEKPICVEQ GQKLAKEIGA CCYVECSALT QKGLKTVFDE AIIAILTPKK HTVKKRIGSR CINCC

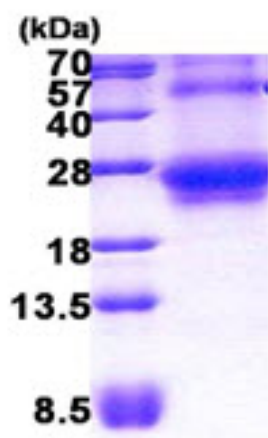
General References

Ridley Aj. et al. (2006) Trends Cell Biol. 16:522-529

Cheng J. et al. (2005) J Biol Chem. 280:3731-3739.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)