PRODUCT INFORMATION

Expression system E.coli

Domain 1-241aa

UniProt No. P61587

NCBI Accession No. NP_005159

Alternative Names Rho-related GTP-binding protein RhoE, ARHE, memB, Rho8, RhoE, Rho-related GTP-binding protein RhoE

PRODUCT SPECIFICATION

Molecular Weight 29.2 kDa (261aa) confirmed by MALDI-TOF

Concentration 0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 1mM EDTA, 0.1M NaCl

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

Rho-related GTP-binding protein RhoE, also known as RND3, is a small GTPase of the Ras superfamily that regulate the organization of the actin cytoskeleton in response to extracellular growth factors. RND3 activity leads to a decrease in stress fibers and increased cell migration, at least in part through regulation of the Rho-dependent kinase ROCK1. Also, RND3 has been implicated in inhibition of DNA-damage induced apoptosis and cell cycle arrest. Recombinant human RND3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



Amino acid Sequence

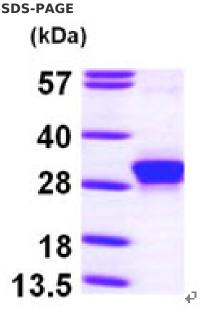
MGSSHHHHHH SSGLVPRGSH MKERRASQKL SSKSIMDPNQ NVKCKIVVVG DSQCGKTALL HVFAKDCFPE NYVPTVFENY TASFEIDTQR IELSLWDTSG SPYYDNVRPL SYPDSDAVLI CFDISRPETL DSVLKKWKGE IQEFCPNTKM LLVGCKSDLR TDVSTLVELS NHRQTPVSYD QGANMAKQIG AATYIECSAL QSENSVRDIF HVATLACVNK TNKNVKRNKS QRATKRISHM PSRPELSAVA TDLRKDKAKS C

coomassie blue stain.

General References

Riento K., et al. (2005) Mol Cell Biol. 23:4219-29. Boswell S A., et al. (2007) J Biol Chem. 282:4850-8

DATA



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by