# **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