

Recombinant human RhoGDI 1/ARHGDI protein

Catalog Number: ATGP0775

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-204aa

UniProt No.

P52565

NCBI Accession No.

NP_004300

Alternative Names

Rho GDP-dissociation inhibitor 1, GDIA1, RHOGDI, RHOGDI-1, Rho-GDI alpha

PRODUCT SPECIFICATION

Molecular Weight

22.9 kDa (202aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 95% 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 GDP-dissociation inhibitor 1, also known ARHGDI, belong to the RAS gene superfamily encoding small guanine nucleotide exchange (GTP/GDP) factors. Localized to the cytoplasm, ARHGDI inhibits the dissociation of GDP from Rho proteins, thereby preventing GTP from binding to and subsequently activating Rho proteins. In humans ARHGDI can be phosphorylated at Ser 101 by p21-activated kinase, an event that inhibits ARHGDI activity and may result in positive feedback regulation of certain ARHGDI target proteins. Recombinant human ARHGDI protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

Recombinant human RhoGDI 1/ARHGDIA protein

Catalog Number: ATGP0775

chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSVNYKPPAQ KSIQEIQELD KDDSLRKYK EALLGRVAVS ADPNVPNVVV
TGLTLVCSSA PGPLEDLTG DLESFKKQSF VLKEGVEYRI KISFRVNREI VSGMKYIQT YRKGVKIDKT DYMVGSYGPR
AEEYEFLTPV EEAPKGMLAR GSYSIKSRFT DDDKTDHLSW EWNLTIKKDW KD

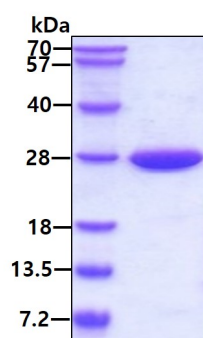
General References

DerMardirossian C., et al. (2006) Mol Biol Cell. 17:4760-4768.

Leffers H., et al. (1993) Exp Cell Res. 209:165-174.

DATA

SDS-PAGE



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