

# Recombinant human RhoGDI 1/ARHGDI protein

Catalog Number: ATGP0775

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

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chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSVNYKPPAQ KSIQEIQELD KDESRLRKYK EALLGRVAVS ADPNVFNVVV  
TGLTLVCSA PGPLEDLTG DLESFKKQSF VLKEGVEYRI KISFRVNREI VSGMKYIQHT YRKGVKIDKT DYMVGSYGPR  
AEEYEFLTPV EEAPKGMLAR GSYSIKSRFT DDDKTDHLSW EWNLTIKKDW KD

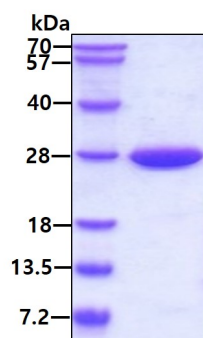
## General References

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