

# Recombinant human GDI2 protein

Catalog Number: ATGP2654

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-445aa

### UniProt No.

P50395

### NCBI Accession No.

NP\_001485

### Alternative Names

Rab GDP dissociation inhibitor beta isoform 1, Rab GDP dissociation inhibitor beta isoform 1, RABGDIB

## PRODUCT SPECIFICATION

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### Molecular Weight

53.1 kDa (468aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 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

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### Description

Rab GDP dissociation inhibitor beta isoform 1, also known as GDI2, belongs to the GDP dissociation inhibitors (GDIs) family. GDIs can bind and release GDP-bound Rab proteins from membranes. Two GDI proteins towards different Rab proteins have been identified. GDI1 interacts with almost all of the Rab proteins, while GDI2 interacts with RabII but not Rab3A. GDI2 distributes ubiquitously, displaying a membrane bound location in perinuclear regions of cells. GDI-2 was thought to be involved in cellular response to insulin. Recombinant human GDI2 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 SGLVPRGSH MGSMEEDYDV IVLGTGLTEC ILSGIMSVNG KKVLMMDRNP YGGESASIT PLEDLYKRFK  
IPGSPPEMGR RGRDWNVDLI PKFLMANGQL VKMLLYTEVT RYLDKFKVTEG SFVYKGGKIY KVPSTAEAL ASSLMGLFEK  
RRFRKFLVYV ANFDEKDPRT FEGIDPKKTT MRDVYKKFDL GQDVIDFTGH ALALYRTDDY LDQPCYETIN RIKLYSES  
LA RYKSPYLYP LYGLGELPQG FARLSAIYGG TYMLNKPIEE IIVQNGKVVG VKSEGEIARC KQLICDPSYV KDRVEKVGQV  
IRVICILSHP IKNTNDANSC QIIPQNQVN RKSDIYVCM I SFAHNVAAQG KYIAIVSTTV ETKPEKEIR PALETTEPIE  
QKFVSDLL VPKDLGTESQ IFISRTYDAT THFETTCDDI KNIYKRMTGS EFDFEEMKRK KNDIYGED

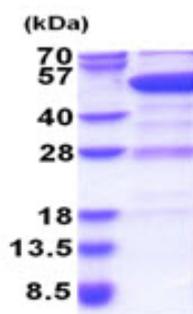
## General References

Nishimura N., et al. (1995) Cancer Res. 55: 5445-5450.

Sedlacek Z., et al. (1999) Mol Biol Evol. 16: 1231-1237.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)