

## Recombinant Human GDI2, His-tagged

Cat. No. GDI2-161H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	GDI2, 1-445aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-445aa
<b>Description</b>	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 Rab11 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 chromatography techniques.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	53.1 kDa (468aa)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGSMNEEYDV IVLGTGLTEC ILSGIMSVNG KKVLHMDRNP YYGGESASIT PLEDLYKRFK IPGSPPESMG RGRDWNVDLI

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PKFLMANGQL VKMLLYTEVT RYLDFKVTEG SFVYKGGKIY KVPSTEAAL  
 ASSLMGLFEK RRFRKFLVYV ANFDEKDPRT FEGIDPKKTT MRDVYKKFDL  
 GQDVIDFTGH ALALYRTDDY LDQPCYETIN RIKLYSES LA RYGKSPYLYP  
 LYGLGELPQG FARLSAIYGG TYMLNKPIEE IIVQNGKVIG VKSEGEIARC  
 KQLICDPSYV KDRVEKVGQV IRVICILSHP IKNTNDANSC QIIPQNQVN  
 RKSDIYVCM I SFAHNVA AQG KYIAIVSTTV ETKEPEKEIR PALELLEPIE  
 QKFVVISDLL VPKDLGTESQ IFISRTYDAT THFETTCDDI KNIYKRMTGS  
 EFD FEEMKRK KNDIYGED

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [GDI2 GDP dissociation inhibitor 2 \[ Homo sapiens \]](#)

**Official Symbol** GDI2

**Synonyms** GDI2; GDP dissociation inhibitor 2; rab GDP dissociation inhibitor beta; rab GDP dissociation; RABGDIB; GDI-2; rab GDI beta; rab GDP-dissociation inhibitor, beta; guanosine diphosphate dissociation inhibitor 2; FLJ16452; FLJ37352;

**Gene ID** [2665](#)

**mRNA Refseq** [NM\\_001115156](#)

**Protein Refseq** [NP\\_001108628](#)

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<b>MIM</b>	600767
<b>UniProt ID</b>	P50395
<b>Chromosome Location</b>	10p15
<b>Pathway</b>	Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by Rho GTPases, organism-specific biosystem;
<b>Function</b>	GTPase activator activity; Rab GDP-dissociation inhibitor activity; Rab GTPase activator activity; protein binding;

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