

Recombinant Human GDI2, His-tagged

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

SPECIFICATION

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

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PKFLMANGQL VKMLLYTEVT RYLDKFKVTEG SFVYKGGKIY KVPSTAEAL
 ASSLMGLFEK RRFRKFLVYV ANFDEKDPRT FEGIDPKKTT MRDVYKKFDL
 GQDVIDFTGH ALALYRTDDY LDQPCYETIN RIKLYSES LA RY GKSPYLYP
 LYGLGELPQG FARLSAIYGG TYMLNKPIEE IIVQNGKVIG VKSEGEIARC
 KQLICDPSYV KDRVEKVGQV IRVICILSHP IKNTNDANSC QIIPQNQVN
 RKSDIYVCM I SFAHNVAAG KYIAIVSTTV ETKEPEKEIR PALELLEPIE
 QKFVSISDLL VPKDLGTESQ IFISRTYDAT THFETTCDDI KNIYKRMTGS
 EFDFEEMKRK 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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MIM	600767
UniProt ID	P50395
Chromosome Location	10p15
Pathway	Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by Rho GTPases, organism-specific biosystem;
Function	GTPase activator activity; Rab GDP-dissociation inhibitor activity; Rab GTPase activator activity; protein binding;

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