

**GDI2, 1-445aa, Human, His tag, E.coli**

**Cat.NO.: TP02225**

3th Edition

**Synonyms:**Rab GDP dissociation inhibitor beta isoform 1 , RABGDIB

**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 Weight:**53.1 kDa (468aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMNEEYDVIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESASITPLEDL  
YKRFKIPGSPPEMGRGRDWNVDLIPKFLMANGQLVKMLLYTEVTRYLDFKVTEGSFVYKGGKIYKVPSTEAEALA  
SSLMGLFEKRRFRKFLVYVANFDEKDPRTFEGIDPKKTTMRDVYKKFDLGQDVIDFTGHALALYRTDDYLDQPCYE  
TINRIKLYSESLARYGKSPYLYPLYGLGELPQGFARLSAIYGGTYMLNKPIEEIIVQNGKVIGVKSEGEIARCKQLICDP  
SYVKDRVEKVGQVIRVICILSHPIKNTNDANSCQIIPQNQVNRKSDIYVCMISFAHNVAAGKYIAIVSTTVETKEPEK  
EIRPALELLEPIEQKFVSISDLLVPKDLGTESQIFISRTYDATTHFETTCDIKNYKRMTGSEFD FEEMKRKKNDIYGE  
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**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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