Recombinant human GDI1 protein

Catalog Number: ATGP2689

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-447aa

UniProt No.
P31150

NCBI Accession No.
NP_001484.1

Alternative Names
Rab GDP dissociation inhibitor alpha, Rab GDP dissociation inhibitor alpha, GDP dissociation inhibitor 1, 1A, GDIL, MRX41, MRX48, OPHN2, RABGD1A, RABGDIA, XAP-4

PRODUCT SPECIFICATION

Molecular Weight
53 kDa (470aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity
> 90% 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

Description
GDP dissociation inhibitors are proteins that regulate the GDP-GTP exchange reaction of members of the rab family, small GTP-binding proteins of the ras superfamily, that are involved in vesicular trafficking of molecules between cellular organelles. GDIs slow the rate of dissociation of GDP from rab proteins and release GDP from membrane-bound rabs. GDI1 is expressed primarily in neural and sensory tissues. Mutations in GDI1 have been linked to X-linked nonspecific mental retardation. Recombinant human GDI1 protein, fused to His-tag at N-

terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

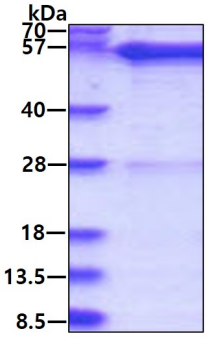
<MGSSHHHHHH SSGLVPRGSH MGS>MDEEYDV IVLGTGLTEC ILSGIMSVNG KKVLHMDRNP YYGGESSSIT PLEELYKRFQ LLEGPPESMG RGRDWNVDLI PKFLMANGQL VKMLLYTEVT RYLDFKVVEG SFVYKGGKIY KVPSTETEAL ASNLMGMFEK RRFRKFLVFV ANFDENDPKT FEGVDPQTTS MRDVYRKFDL GQDVIDFTGH ALALYRTDDY LDQPCLETVN RIKLYSESLA RYGKSPYLYP LYGLGELPQG FARLSAIYGG TYMLNKPVDD IIMENGKVVG VKSEGEVARC KQLICDPSYI PDRVRKAGQV IRIICILSHP IKNTNDANSC QIIIPQNQVN RKSDIYVCMI SYAHNVAAQG KYIAIASTTV ETTDPEKEVE PALELLEPID QKFVAISDLY EPIDDGCESQ VFCSCSYDAT THFETTCNDI KDIYKRMAGT AFDFENMKRK QNDVFGEAEQ

General References

Bachner D, Sedlacek Z., et al. (1995) Hum Mol Genet 4 (4): 701-8.
Sedlacek Z, Konecki DS., et al. (1995) Mamm Genome 5 (10): 633-9.

DATA

SDS-PAGE



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