

AR51509PU-N

Human Rab GDI alpha / GDI1 (1-447, His-tag) - Purified

Alternate names:

GDIL, Guanosine diphosphate dissociation inhibitor 1, OPHN2, Oligophrenin-2, Protein XAP-4, RABGDI, Rab GDP dissociation inhibitor alpha, XAP4

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P31150](#)

NCBI:

[NP_001484](#)

GenelD:

[2664](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Description:

Recombinant human GDI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMDEEYDV IVLGTGLTEC ILSGIMSVNG KKVLMHMRNP
YYGGESSIT PLEELYKRFQ LLEGPPESMG RGRDWNVDLI PKFLMANGQL VKMLLYTEVT
RYLDFKVEG SFVYKGGKIY KVPSTETEAL ASNLMGMFEK RFRKFLVFV ANFDENDPKT
FEGVDPQTTS MRDVYRKFDL GQDVIDFTGH ALALYRTDDY LDQPCLETVN RIKLYSESLA
RYGKSPYLYP LYGLGELPQG FARLSAIYGG TYMLNKPVDI IIMENGKVVG VKSEGEVARC
KQLICDPSYI PDRVRKAGQV IRIICILSHP IKNTNDANSC QIIIPQNQVN RKSDIYVCM
SYAHNVAAQG KYIAIASTTV ETTDPEKEVE PALELLEPID QKFVAISDLY EPIDGCGESQ
VFCSCSYDAT THFETTCNDI KDIYKRMAGT AFDFENMKRK QNDVFGEAEQ

Molecular weight: 53.0 kDa (470aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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.

Pictures:

