
Product Data Sheet

Product Name: GDI1 Human
 Cat. No.: GP23542
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Rab GDP dissociation inhibitor alpha; Rab GDI alpha; GDP Dissociation Inhibitor 1; GDI1; Guanosine diphosphate dissociation inhibitor 1; GDI-1; Oligophrenin-2; XAP-4; GDIL; OPHN2; RABGDIA; XAP4; MRX41; MRX48; 1A; RABGD1A.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDEEYDV IVLGTGLTEC ILSGIMSVNG KKVLMHMDRNP YYGGESSIT PLEELYKRFQ LLEGPPESMG RGRDWNVDLI PKFLMANGQL VKMLLYTEVT RYLDKVVVEG SFVYKGGKIY KVPSTETEAL ASNLMGMFEK RRFRKFLVFV ANFDENDPKT FEGVDPQTTS MRDVYRKFDL GQDVIDFTGH ALALYRTDDY LDQPCLETVN RIKLYSESLA RYGKSPYLYP LYGLGELPQG FARLSAIYGG TYMLNKPVDD IIMENKVVVG VKSEGEVARC KQLICDPSYI PDRVRKAGQV IRIICILSHP IKNTNDANSC QIIPQNQVN RKSDIYVCMY SYAHNVAAQG KYIAIASTTV ETTDPEKEVE PALELLEPID QKFVAISDLY EPIDGDCESQ VFCSCSYDAT THFETTCNDI KDIYKRMAGT AFDNFENMKRK QNDVFGAEQ.		
Formulation	The GDI1 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

GDP Dissociation Inhibitor 1 (GDI1) is expressed mainly in neural and sensory tissues. GDI1 regulates the GDP/GTP exchange reaction of nearly all Rab proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them. GDI1 is also promoting the dissociation of GDP-bound Rab proteins from the membrane and inhibits their activation. Mutations in GDI1 have been associated with X-linked nonspecific mental retardation.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GDI1 Human Recombinant produced in E. coli is a single polypeptide chain containing 470 amino acids (1-447) and having a molecular mass of 53 kDa. GDI1 is fused to 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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