
Product Data Sheet

Product Name: ARHGDI Human
 Cat. No.: GP22765
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Rho GDP-dissociation inhibitor 1; Rho GDI 1; Rho-GDI alpha; ARHGDI; GDIA1; RHOGDI; RHOGDI-1; MGC117248.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSVNYKPPAQ KSIQEIQELD KDDSLRKYK EALLGRVAVS ADPNVPNVVV TGLTLVCSSA PGPLEDLTG DLESFKKQSF VLKEGVEYRI KISFRVNREI VSGMKYIQHT YRKGVKIDKT DYMVGSYGPR AEEYEFLTPV EEAPKGMLAR GSYSIKSRFT DDDKTDHLSW EWNLTIKKDW KD.		
Formulation	The ARHGDI solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.		

Introduction

Rho GDP-dissociation inhibitor 1 (ARHGDI) is a member of the RAS gene superfamily, which encodes small guanine nucleotide exchange (GTP/GDP) factors. ARHGDI, which is localized to the cytoplasm, inhibits the dissociation of GDP from Rho proteins, thus preventing GTP from binding to and consequently activating Rho proteins. In humans, the ARHGDI can be phosphorylated at Ser 101 by p21-activated kinase, an event that inhibits its activity and may result in positive feedback regulation of several ARHGDI target proteins.

Stability

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

ARHGDI Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 202 amino

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acids (24-204 a.a.) and having a molecular mass of 22.9kDa. The ARHGDI A is purified by proprietary chromatographic techniques.

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