Recombinant Human Rho GDP Dissociation Inhibitor (GDI) Alpha

Cat. No. ARHGDIA-4913H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ARHGDIA having a molecular mass of 54 kDa was expressed by E. coli.
Species	Human
Source	E.coli
Description	ARHGDIA belongs to the family of rho-GDI or GDP-dissociation inhibitors for the Rho/Rac family of small G proteins; consisting of rhoGDI-1, D4-GDI/rhoGDI-2 and rhoGDI-3. It inhibits the release of GDP from the Rho proteins, essential for GTP-loading and activation of GTPase activity. ARHGDIA is located in the cytoplasm and is involved in the regulation of the membrane association and dissociation cycle of Rho/Rac proteins. It is known to be a substrate for caspase 3 during Fas-mediated apoptosis.
Molecular Weight	54 kDa
Form	100μg/ml in 50mM Tris-Acetate, pH 7.5, 1mM EDTA, 20% Glycerol.
Appearance	Liquid
Endotoxin Level	<0.1 ng/μg
Purity	>90% as determined by SDS-PAGE and HPLC.

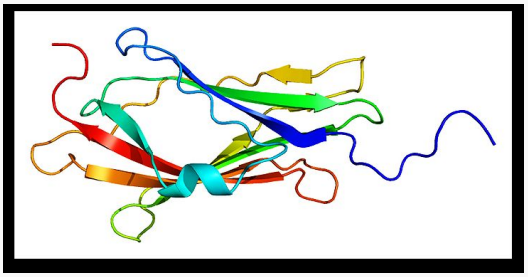
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Storage	Stable at -20°C or -80°C. Stable for 6-12 months. Avoid freeze-thaw cycles.
Pathways	Axonal growth inhibition (RHOA activation); Axonal growth stimulation; CDC42 signaling events; Neurotrophin signaling pathway; RAC1 signaling pathway; Regulation of CDC42 activity; Regulation of RAC1 activity; Regulation of RhoA activity; Rho GTPase cycle; Signaling by Rho GTPases; Signalling by NGF; Vasopressin-regulated water reabsorption; p75 NTR receptor-mediated signalling; p75(NTR)-mediated signaling; p75NTR regulates axonogenesis

GENE INFORMATION

Gene Name	ARHGDIA Rho GDP dissociation inhibitor (GDI) alpha [Homo sapiens]
Official Symbol	ARHGDIA
Synonyms	ARHGDIA; Rho GDP dissociation inhibitor (GDI) alpha; GDIA1; MGC117248; RHOGDI; RHOGDI-1; rho GDI 1; rho GDP-dissociation inhibitor 1; rho-GDI alpha
Gene ID	396
mRNA Refseq	NM_004309
Protein Refseq	NP_004300
MIM	601925
UniProt ID	P52565
Chromosome Location	17q25.3

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Function	GTPase activator activity; Rho GDP-dissociation inhibitor activity
PDB rendering based on 1ajw.	

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