

Recombinant Human Rho GDP Dissociation Inhibitor (GDI) Alpha, His-tagged

ARHGDIS-6906H Human

Lot. No. (See product label)

Specification

Product Overview	Recombinant human ARHGDIS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 22.9 kDa.
Description	ARHGDIS belong to the RAS gene superfamily encoding small guanine nucleotide exchange (GTP/GDP) factors. Localized to the cytoplasm, ARHGDIS inhibits the dissociation of GDP from Rho proteins, thereby preventing GTP from binding to and subsequently activating Rho proteins. In humans ARHGDIS can be phosphorylated at Ser 101 by p21-activated kinase, an event that inhibits ARHGDIS activity and may result in positive feedback regulation of certain ARHGDIS target proteins.
Source	E. coli
Species	Human
Tag	His
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Molecular Mass	22.9 kDa (202aa) confirmed by MALDI-TOF
Protein length	24-204aa
AA Sequence	MGSSHHHHHHH SSGLVPRGSH MSVNYKPPAQ KSIQEIQLD KDDSLRKYK EALLGRVAVS ADPNVNVVV TGLTLVCSSA PGPLELDLTG DLESFKKQSF VLKEGVEYRI KISFRVNREI VSGMKYIQT YRKGVKIDKT DYMVGSYGPR AEEYEFLTPV EEAPKGMLAR GSYSIKSRFT DDDKTDHLSW EWNLTIKKDW KD
Purity	>95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4 short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

Gene Information

Gene Name	ARHGDIS Rho GDP dissociation inhibitor (GDI) alpha [Homo sapiens]
Official Symbol	ARHGDIS
Synonyms	ARHGDIS; Rho GDP dissociation inhibitor (GDI) alpha; GDIA1; rho GDP-dissociation inhibitor 1; RHOGDI; rho GDI 1; rho-GDI alpha; RHOGDI-1; MGC117248;

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Gene ID	396
mRNA Refseq	NM_001185077
Protein Refseq	NP_001172006
MIM	601925
UniProt ID	P52565
Chromosome Location	17q25.3
Pathway	Axonal growth inhibition (RHOA activation), organism-specific biosystem; Axonal growth stimulation, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Neurotrophin signaling pathway, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem; RAC1 signaling pathway, organism-specific biosystem; Regulation of CDC42 activity, organism-specific biosystem;
Function	GTPase activator activity; Rho GDP-dissociation inhibitor activity;

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