

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

Cat. No. ARHGDIA-6906H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ARHGDIA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 22.9 kDa.
Species	Human
Source	E.coli
ProteinLength	24-204aa
Description	ARHGDIA belong to the RAS gene superfamily encoding small guanine nucleotide exchange (GTP/GDP) factors. Localized to the cytoplasm, ARHGDIA inhibits the dissociation of GDP from Rho proteins, thereby preventing GTP from binding to and subsequently activating Rho proteins. In humans ARHGDIA can be phosphorylated at Ser 101 by p21-activated kinase, an event that inhibits ARHGDIA activity and may result in positive feedback regulation of certain ARHGDIA target proteins.
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
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSVNYKPPAQ KSIQEIQLD KDDSLRKYK EALLGRVAVS ADPNVPNVVV TGLTLVCSSA PGPLEDLTG DLESFKKQSF VLKEGVEYRI KISFRVNREI VSGMKYIQHT YRKGVKIDKT DYMVGSYGPR

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AEEYEFLTPV EEAPKGMLAR GSYSIKSRFT DDDKTDHLSW EWNLTIKKDW KD

Purity >95% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

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; rho GDP-dissociation inhibitor 1; RHOGDI; rho GDI 1; rho-GDI alpha; RHOGDI-1; MGC117248;

Gene ID [396](#)

mRNA Refseq [NM_001185077](#)

Protein Refseq [NP_001172006](#)

MIM [601925](#)

UniProt ID [P52565](#)

Chromosome Location 17q25.3

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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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