

Recombinant Human ARHGDIA, His-tagged

Cat. No. ARHGDIA-2880H **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.
Species	Human
Source	E.coli
Description	Rho GDP-dissociation inhibitor 1, also known 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.
Sequence	MGSSHHHHHH SSGLVPRGSH MSVNYKPPAQ KSIQEIQELD KDDSLRKYK EALLGRVAVS ADPNVPNVVV TGLTLVCSSA PGPLELDLTG DLESFKKQSF VLKEGVEYRI KISFRVNREI VSGMKYIQHT YRKGVKIDKT DYMVGSYGPR AEEYEFLTPV EEAPKGMLAR GSYSIKSRFT DDDKTDHLSW EWNLTIKKDW KD.
Purity	> 95% by SDS – PAGE.
MW	22.9 kDa (202aa) confirmed by MALDI-TOF.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol.

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Concentration	1mg/ml (determined by Bradford assay).
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.
GENE INFORMATION	
Gene Name	ARHGDI Rho GDP dissociation inhibitor (GDI) alpha [Homo sapiens]
Synonyms	ARHGDI; 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_001185077
Protein Refseq	NP_001172006
MIM	601925
UniProt ID	P52565
Chromosome Location	17q25.3
Pathway	Neurotrophin signaling pathway; Vasopressin-regulated water reabsorption; Signaling by Rho GTPases
Function	GTPase activator activity; Rho GDP-dissociation inhibitor activity; identical protein binding; protein binding



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