

Recombinant Human ARHGEF1, His-tagged

Cat. No. ARHGEF1-27183TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 491-655 of Human ARHGEF1 isoform 2 with a N terminal His tag; predicted MWt 20 kDa:
Species	Human
Source	E.coli
ProteinLength	491-655 a.a.
Description	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined.
Conjugation	HIS
Form	Lyophilised:Reconstitution with 129 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino	EQLKAKQRKDPRFCAFVQEAESRPRCRLQLKDMIPTMQ RLTKYPLLLQSIGQNT

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acids EEPTEREKVELAAECCREILHH VNQAVRDMEDLLRLKDYQRRDLShLRQSSDPML
SEFK NLDITKKKLVHEGPLTWRVTKDKAVEVHVLLDDLLLLLQ RQDERLLK

GENE INFORMATION

Gene Name	ARHGEF1 Rho guanine nucleotide exchange factor (GEF) 1 [Homo sapiens]
Official Symbol	ARHGEF1
Synonyms	ARHGEF1; Rho guanine nucleotide exchange factor (GEF) 1; rho guanine nucleotide exchange factor 1; LBCL2; P115 RHOGEF; SUB1.5;
Gene ID	9138
mRNA Refseq	NM_004706
Protein Refseq	NP_004697
MIM	601855
Uniprot ID	Q92888
Chromosome Location	19q13.13
Pathway	Axonal growth inhibition (RHOA activation), organism-specific biosystem; Axonal growth stimulation, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; G13 Signaling Pathway, organism-specific biosystem;
Function	GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; guanyl-

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nucleotide exchange factor activity; protein binding;

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