Recombinant Human RGS1, His-tagged

Cat. No. RGS1-30015TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 14-209 of Human RGS1 with N-terminal His tag; MWt 26 kDa.
Species	Human
Source	E.coli
ProteinLength	14-209 a.a.
Description	This gene encodes a member of the regulator of G-protein signalling family. This protein is located on the cytosolic side of the plasma membrane and contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signalling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal.
Conjugation	HIS
Tissue specificity	B-cell specific. Expression is relatively low in B-cells and chronic lymphocytic leukemia B-cells; however, in other types of malignant B-cell such as non-Hodgkin lymphoma and hairy cell leukemia, expression is constitutively high.
Form	Liquid

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Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 2mM DTT, 0.1mM PMSF, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 RGS domain.

GENE INFORMATION

Gene Name	RGS1 regulator of G-protein signaling 1 [Homo sapiens]
Official Symbol	RGS1
Synonyms	RGS1; regulator of G-protein signaling 1; IER1, regulator of G protein signalling 1; 1R20; BL34; IR20;
Gene ID	5996
mRNA Refseq	NM_002922
Protein Refseq	NP_002913
MIM	600323
Uniprot ID	Q08116
Chromosome Location	1q31
Pathway	CXCR4-mediated signaling events, organism-specific biosystem; Calcium Regulation

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	in the Cardiac Cell, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem;
Function	GTPase activator activity; calmodulin binding; signal transducer activity;

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