Recombinant Human Regulator of G-protein Signaling 1, His-tagged

Cat. No. RGS1-6795H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanRGS1 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	RGS1 is a member ofthe regulator of G-protein signalling family. This protein is located on thecytosolic side of the plasma membrane and contains a conserved, 120 aminoacid motif called the RGS domain. The protein attenuates the signallingactivity of G-proteins by binding to activated, GTP-bound G alpha subunitsand acting as a GTPase activating protein (GAP), increasing the rate ofconversion of the GTP to GDP. This hydrolysis allows the G alpha subunits tobind G beta/gamma subunit heterodimers, forming inactive G-proteinheterotrimers, thereby terminating the signal
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Weight	26 kDa (233aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	0.25 mg/ml(determined by Bradford assay)

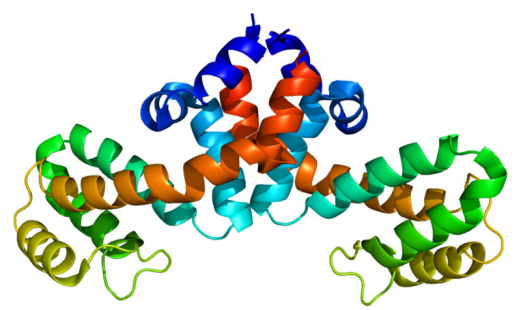
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Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMRAAAI STPKLDKMPG MFFSANPKEL KGTTHSLLDD KMQKRRPKTF GMDMKAYLRSMIPHLESGMK SSKSKDVLSA AEVMQWSQSL EKLLANQTGQ NVFGSFLKSE FSEENIEFWL ACEDYKKTESDLLPCKAEEI YKAFVHSDAA KQINIDFRTR ESTAKKIKAP TPTCFDEAQK VIYTLMEKDS YPRFLKSDIYLNLLNDLQAN SLK
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	RGS1regulator of G-protein signaling 1 [Homo sapiens]
Official Symbol	RGS1
Synonyms	RGS1; regulator of G-proteinsignaling 1; IER1, regulator of G protein signalling 1; 1R20; BL34; IR20;1R20; B cell activation protein BL34; B-cell activation protein BL34; BL34;Early response protein 1R20; IER 1; IER1; Immediate early response 1B cellspecific; IR20; Regulator of G protein signalling 1; Regulator of G-proteinsignaling 1; RGS 1; RGS1; RGS1_HUMAN; early response protein 1R20; B-cellactivation protein BL34; regulator of G-protein signalling 1; immediate-earlyresponse 1, B-cell specific; IER1
Gene ID	5996
mRNA Refseq	NM_002922
Protein Refseq	NP_002913
MIM	600323

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Uniprot ID	Q08116
Chromosome Location	1q31
Pathway	CXCR4-mediated signaling events,organism-specific biosystem; Calcium Regulation in the Cardiac Cell,organism-specific biosystem; G alpha (i) signalling events, organism-specificbiosystem; GPCR downstream signaling, organism-specific biosystem; MyometrialRelaxation and Contraction Pathways, organism-specific biosystem
Function	GTPase activator activity;calmodulin binding; signal transducer activity
PDB rendering based on 2bv1.	

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