

Recombinant Human Regulator Of G-Protein Signaling 14, His-tagged

Cat. No. RGS14-6943H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RGS14 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
ProteinLength	1-566aa
Description	RGS14 belongs to regulator of G protein signalling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco motif. RGS14 is highly enriched in CA2 pyramidal neurons and plays a role in suppression of both synaptic plasticity at these synapses and hippocampal-based learning and memory. RGS14 is a scaffolding protein that integrates G protein and H-Ras/ERK/MAP kinase signaling pathways, thereby making it well positioned to suppress plasticity in CA2 neurons.
Form	Liquid. In 20 mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT, 200mM NaCl.
Molecular Mass	63.6 kDa (586aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MPGKPKHLGV PNGRMVLAVS DGELSSTTGP QQQGEGRGSS LSIHSLPSGP SSPFPTEEQP VASWALSFER LLQDPLGLAY FTEFLKKEFS AENVTFWKAC ERFQQIPASD TQQLAQEARN IYQEFLSSQA

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LSPVNIDRQA WLGEELVAEP RPD MFRAQQL QIFNLMKFDS YARFVKSPLY
 RECLLAEEAG RPLREPGSSR LGSPDATRKK PKLKPGKSLP LGVEELGQLP
 PVEGPGGRPL RKSFRRELGG TANAALRRES QGSLNSSASL DLGFLAFVSS
 KSESHRKS LG STEGESESRP GKYCCVYLPD GTASLALARP GLTIRDMLAG
 ICEKRGSLP DIKVYLVGNE QALVLDQDCT VLADQEVRL E NRITFELELT
 ALERVVRISA KPTKRLQEAL QPILEKHGLS PLEVVLHRPG EKQPLDLGKL
 VSSVAAQRLV LDTLPGVKIS KARDKSPCRS QGCPPTQDK ATHPPPASPS
 SLVKVPSSAT GKRQTCDIEG LVELLN RVQS SGAHDQRGLL RKEDLVLP EF
 LQLPAQGPSS EETPPQTKSA AQPIGGSLNS TTDSAL

Purity >80% 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 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RGS14 regulator of G-protein signaling 14 \[Homo sapiens \]](#)

Official Symbol RGS14

Synonyms RGS14; regulator of G-protein signaling 14; regulator of G protein signalling 14; regulator of G-protein signalling 14;

Gene ID [10636](#)

mRNA Refseq [NM_006480](#)

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Protein Refseq	NP_006471
MIM	602513
UniProt ID	O43566
Chromosome Location	5q35.3
Pathway	Calcium Regulation 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; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;
Function	GDP-dissociation inhibitor activity; GTPase activating protein binding; GTPase activator activity; GTPase activator activity; microtubule binding; protein kinase binding; receptor signaling complex scaffold activity; receptor signaling protein activity;

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