

Recombinant Human RGS14 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RGS14-3949H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RGS14 MS Standard C13 and N15-labeled recombinant protein (NP_006471) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the regulator of G-protein signaling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases 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. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.
Molecular Mass	61.4 kDa
AA Sequence	MPGKPKHLGVPNGRMVLAVSDGELSSTTGPQGQGEGRGSSLSIHSLPSGPSSPFP TEEQPVASWALSFERLLQDPLGLAYFTEFLKKEFSAENVTFWKACERFQQIPASDTQ QLAQEARNIYQEFLLSSQALSPVNIDRQAWLGEEVLAEP RPDMFRAQQLQIFNLMKFD SYARFVKSPLYRECLLAEAEGRPLREPGSSRLGSPDATRKKPKLKP GKSLPLGVEEL

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GQLPPVEGPGGRPLRKSFRRELGGTANAALRRESQGSLNSSASLDLGFLAFVSSKS
 ESHRKSLSGSTEGESES RPGKYCCVYLPDGTASLALARPGLTIRDMLAGICEKRGSL
 PDIKVYLVGNEQALVLDQDCTVLADQEVRLNRTFELELTALERVVRISAKPTKRLQ
 EALQPILEKHGLSPLEVVLHRPGGEKQPLDLGKLVSSVAAQRLVLDLTPGVKISKARDK
 SPCRSQGCPPRTQDKATHPPPASPSSLVKVPSSATGKRQTCDIEGLVELLN RVQSS
 GAHDQRGLLRKEDLVLPEFLQLPAQGPSSEETPPQTKSAAQPIGGSLNSTTDSALTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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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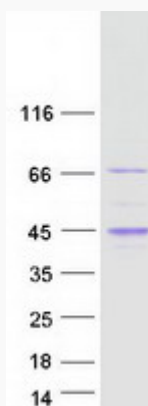
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Protein Refseq NP_006471

MIM 602513

UniProt ID O43566

SDS-PAGE



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