

Recombinant Human RGS10, His-tagged

Cat. No. RGS10-30741TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RGS10, Isoform 3 with an N terminal His tag; 205 amino acids with the tag; mwt: 23.7kDa.
Species	Human
Source	E.coli
ProteinLength	181 amino acids
Description	Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 10 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alpha _{i3} and G-alpha _z but fails to interact with the structurally and functionally distinct G-alpha subunits. Regulator of G protein signaling 10 protein is localized in the nucleus. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	23.700kDa inclusive of tags

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHNVLFWLACED FKKMQDKTQM QEKAKEIYMT FLSSKASSQV NVEGQSRLNE KILEEPHPLM FQKLQDQIFN LMKYDSYSRF LKSDLFLKHK RTEEEEEEDLP DAQTAAKRAS RIYNT
Sequence Similarities	Contains 1 RGS domain.

GENE INFORMATION

Gene Name	RGS10 regulator of G-protein signaling 10 [Homo sapiens]
Official Symbol	RGS10
Synonyms	RGS10; regulator of G-protein signaling 10; regulator of G protein signalling 10;
Gene ID	6001
mRNA Refseq	NM_001005339
Protein Refseq	NP_001005339
MIM	602856

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Uniprot ID	O43665
Chromosome Location	10q25
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;
Function	GTPase activator activity; signal transducer activity;

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