

Recombinant Human RGS10, His-tagged

Cat. No. RGS10-3599H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RGS10 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-181 aa).
Species	Human
Source	E.coli
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(RGS10) 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. RGS10 protein is localized in the nucleus.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
Molecular Weight	23.7 kDa (205aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHEMFNRAV SRLSRKRPPS DIHSDGSSS SSHQSLKSTA KWAASLENLL EDPEGVKRFR EFLKKEFSEE NVLFWLACED FKQMOKDTQM QEKAKEIYMT FLSSKASSQV NVEGQSRLNE KILEEPHPLM FQKLQDQIFN LMKYDSYSRF LKSDLFLKHK RTEEEEEEDLP DAQTAAKRAS RIYNT
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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.
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GENE INFORMATION

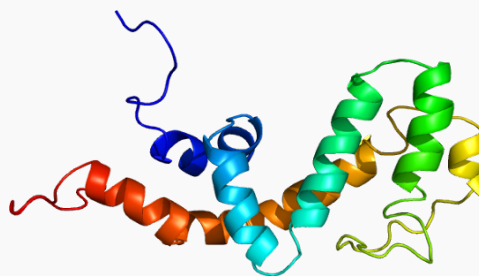
Gene Name	RGS10 regulator of G-protein signaling 10 [Homo sapiens]
Official Symbol	RGS10
Synonyms	regulator of G-protein signaling 10; RGS10; regulator of G-protein signaling 10; OTTHUMP00000020597; OTTHUMP00000020598
Gene ID	6001
mRNA Refseq	NM_001005339
Protein Refseq	NP_001005339
MIM	602856
UniProt ID	O43665
Chromosome Location	10q25
Function	GTPase activator activity; protein binding; signal transducer activity

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