

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)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHEMFNRAV SRLSRKRPPS DIHSDGSSS SSHQSLKSTA KWAASLENLL EDPEGVKRFR EFLKKEFSEE NVLFWLACED FKQMOKDTQM QEKAKEIYMT FLSSKASSQV NVEGQSRLNE KILEEPHPLM FQKLQDQIFN LMKYDSYSRF LKSDLFLKHK RTEEEEEEDLP DAQTAARAS 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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