

# Recombinant Full Length Human RGS4 Protein, His-tagged

**Cat. No.** RGS4-3616H    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant human RGS4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                      |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>      | 1-205 a.a.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>        | RGS4(regulator of G protein signaling 4) is a protein which regulates G protein signaling. 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. Heterotrimeric G proteins function to relay information from cell surface receptors to intracellular effectors. |
| <b>Form</b>               | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT,10% glycerol, 200mM NaCl                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b>   | 25.4kDa (225aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>             | > 90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>      | 1mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sequences of amino</b> | MGSSHHHHHH SSGLVPRGSH MCKGLAGLPA SCLRSAKDMK HRLGFLLQKS                                                                                                                                                                                                                                                                                                                                     |

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**acids**

DSCEHNSSHN KKDKVVICQR VSQEEVKKWA ESLENLISHE CGLAAFKAFL  
 KSEYSEENID FWISCEEYKK IKSPSKLSPK AKKIYNEFIS VQATKEVNLD  
 SCTREETSRN MLEPTITCFD EAQKKIFNLM EKDSYRRFLK SRFYLDLVNP  
 SSCGAEKQKG AKSSADCASL VPQCA

**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.

## GENE INFORMATION

**Gene Name** [RGS4 regulator of G-protein signaling 4 \[ Homo sapiens \]](#)

**Official Symbol** [RGS4](#)

**Synonyms** RGS4; regulator of G-protein signaling 4; RGP4; SCZD9; MGC2124; MGC60244; DKFZp761F1924; schizophrenia disorder 9; regulator of G-protein signalling 4

**Gene ID** [5999](#)

**mRNA Refseq** [NM\\_001102445](#)

**Protein Refseq** [NP\\_001095915](#)

**MIM** [602516](#)

**UniProt ID** [P49798](#)

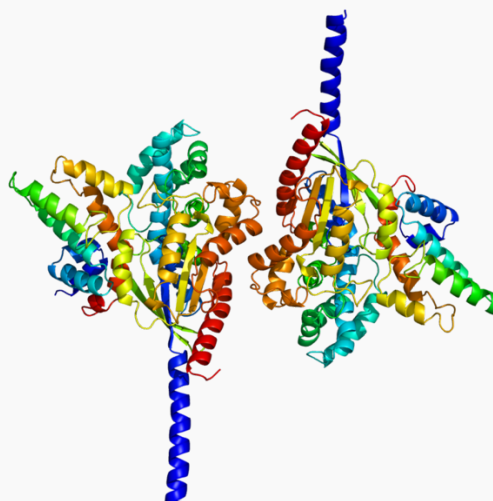
**Chromosome Location** 1q23.3

**Function** GTPase activator activity; calmodulin binding; signal transducer activity

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