

Recombinant Human RGS5, His-tagged

Cat. No. RGS5-3617H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman RGS5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	RGS5, also known as regulator of G-protein signaling 5, binds directly to activated G alpha subunits and act as GTPase-activating proteins(GAPs) to attenuate and/or modulate hormone and neurotransmitter receptor-initiated signaling by both G alpha-GTP and G beta gamma. Vascular endothelial cells express the RGS protein RGS5, where it correlates with capillary morphogenesis, thus rendering it a candidate gene involved in capillary growth, angiogenesis, and also potentially the pathophysiology of stroke.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT
Molecular Weight	23.5 kDa (205aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMMCKGLA ALPHSCLERA KEIKIKLGIL LQKPDSVGDL VIPYNEKPEK PAKTQKTS LD EALQWRDSLDKLLQNNYGLA

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SFKSFLKSEF SEENLEFWIA CEDYKKIKSP AKMAEKAKQI YEEFIQTEAP
KEVNIDHFTK DITMKNLVEP SLSSFDMAQKRIHALMEKDS LPRFVRSEFY QELIK

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

RGS5 regulator of G-protein signaling 5 [Homo sapiens]

Official Symbol

RGS5

Synonyms

RGS5; MST092; MST106; MST129; MSTP032; MSTP092; regulator of G-protein signaling 5; OTTHUMP00000032361; OTTHUMP00000232302; MSTP106; MSTP129

Gene ID

8490

mRNA Refseq

NM_001195303

Protein Refseq

NP_001182232

MIM

603276

UniProt ID

O15539

**Chromosome
Location**

1q23.1

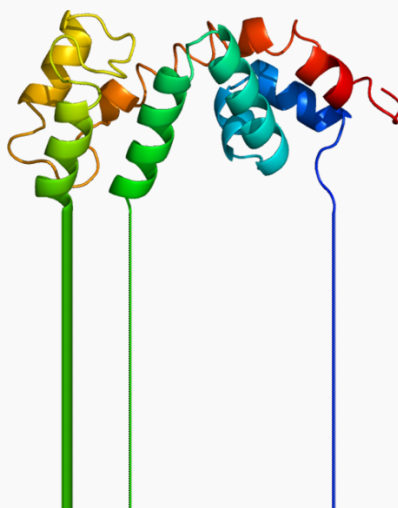
Function

GTPase activator activity; signal transducer activity

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