

Recombinant Human RGS17, His-tagged

Cat. No. RGS17-3639H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RGS17 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-210aa).
Species	Human
Source	Human
Description	RGS17, also known as regulator of G-protein signaling 17, attenuates the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. It plays an important role in termination of signalling by mu opioid receptors and development of tolerance to opioid analgesic drugs.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M NaCl, 1mM DTT
Molecular Weight	26.5 kDa(230aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 90% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MRKRQQSQNE GTPAVSQAPG NQRPNNTCCF

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acids	CWCCCCSCSC LTVRNEERGE NAGRPTHHTK MESIQVLEEC QNPAAEEVLS WSQNFDMKMMK APAGRNLFRE FLRTEYSEEN LLFWLACEDL KKEQNKKVIE EKARMIYEDY ISILSPKEVS LDSRVREVIN RNLLDPNPHM YEDAQLQIYT LMHRDSFPRF LNSQIYKSFV ESTAGSSSES
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.
Pathways	Calcium Regulation in the Cardiac Cell; G alpha (z) signalling events; GPCR downstream signaling; Myometrial Relaxation and Contraction Pathways; Signaling by GPCR
GENE INFORMATION	
Gene Name	RGS17 regulator of G-protein signaling 17 [Homo sapiens]
Official Symbol	RGS17
Synonyms	RGS17; RGSZ2; RGS-17; hRGS17; regulator of G-protein signaling 17; OTTHUMP00000017460
Gene ID	26575
mRNA Refseq	NM_012419
Protein Refseq	NP_036551
MIM	607191
UniProt ID	Q9UGC6

Chromosome

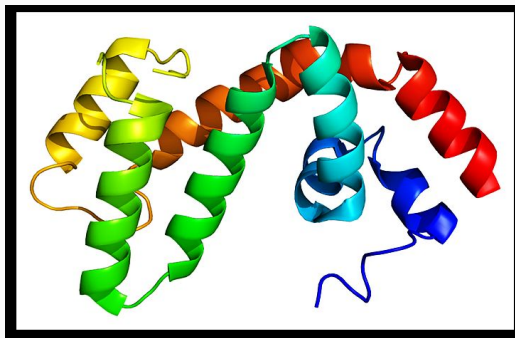
Location

6q25.3

Function

GTPase activator activity; signal transducer activity

PDB rendering based
on 1zv4.



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