

Product datasheet for **TP305284M**

RGS7 (NM_002924) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human regulator of G-protein signaling 7 (RGS7), 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC205284 protein sequence
Red=Cloning site **Green**=Tags(s)

MAQGNNYGQTSNGVADESPNMLVYRKMEDVIARMQDEKNGIPIRTVKSFSLKIPSVFSGSDIVQWLKLNLTIEDPVEALHLGTLMAAHGYFFPISDHVLTLDKDDGTFYRFQTPYFWPSNCWEPENTDYAVYLCKRTMQNKARLELADYEAESLARLQRAFARKWEFIFMQAEAQAKVDKKRDKIERKILDSQERAFWDVHRPVPVCVNTTEVDIKKSSRMRNPHKTRKSVYGLQNDIRSHSPTHTPTPETKPTEDELQQQIKYWQIQLDRHRLKMSKVA DSLLSYTEQYLEYDPFLLPPDPSNPWLSDDTTFWELEASKEPSQQRVKRWGFGMDEALKDPVGREQFLKLESEFSSENLRFWLAVEDLKKRPIKEVPSRVQEIWQEFAPGAPSAINLDSKSYDKTTHNVKEPGRYTFEDAQEHYKLMKSDSYPRFIRSSAYQELLQAKKSGNSMDRRTSFEKFAQNVGKSLTSKRLTSLAQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 56.6 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage: Store at -80°C.
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq: [NP_002915](#)



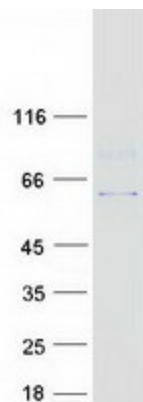
[View online »](#)

Locus ID: 6000
UniProt ID: [P49802](#)
RefSeq Size: 2495
Cytogenetics: 1q23.1
RefSeq ORF: 1461

Summary: Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:10521509, PubMed:10862767). The RGS7/GNB5 dimer enhances GNAO1 GTPase activity (PubMed:10521509). May play a role in synaptic vesicle exocytosis (PubMed:12659861). Modulates the activity of potassium channels that are activated by GNAO1 in response to muscarinic acetylcholine receptor M2/CHRM2 signaling (PubMed:15897264).[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified RGS7 protein (Cat# [TP305284]). The protein was produced from HEK293T cells transfected with RGS7 cDNA clone (Cat# [RC205284]) using MegaTran 2.0 (Cat# [TT210002]).