

Product datasheet for **TP305284**

RGS7 (NM_002924) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human regulator of G-protein signaling 7 (RGS7), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205284 protein sequence Red =Cloning site Green =Tags(s) MAQGNNYGQTSNGVADESPNMLVYRKMEDVIARMQDEKNGIPIRTVKSFLSKIPSVFSGSDIVQWLIKNL TIEDPVEALHLGLTMAAHGYFFPISDHVLTLDKDDGTFFYRFQTPYFWPSNCWEPENTDYAVYLCKRTMQNK ARLEADYEAESLARLQRAFARKWEFIFMQAEAQAKVDKKRDKIERKILDSQERAFWDVHRPVPGCVNTT EVDIKSSRMNRNPHKTRKSVYGLQNDIRSHSPTHTPTPETKPPTDELQQQIKYWQIQLDRLKMSKVA DSLLSYTEQYLEYDPFLPPDPSNPWLSDDTTFWELEASKEPSQQRVKRWGFGMDEALKDPVGREQFLKF LESEFSSSENLRFWLAVEDLKKRPIKEVPSRVQEIWQEFAPGAPSAINLDSKSYDKTTHNVKEPGRYTFE DAQEHYKLMKSDSYPRFIRSSAYQELLQAKKSGNSMDRRTSFEKFAQNVGKSLTSKRLTSLAQSY 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:	<u>NP_002915</u>


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Locus ID:	6000
UniProt ID:	<u>P49802</u>
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]).