

Product datasheet for PH305284

RGS7 (NM_002924) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RGS7 MS Standard C13 and N15-labeled recombinant protein (NP_002915)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205284
Predicted MW:	56.8 kDa
Protein Sequence:	>RC205284 protein sequence Red =Cloning site Green =Tags(s)

MAQGNNGQTSNGVADESPNMLVYRKMEDVIARMQDEKNGIPIRTVKSFLSKIPSVFSGSDIVQWLIKNL
 TIEDPVEALHLGTLMAAHGYFFPISDHVLTLDKDDGTFYRFQTPYFWPSNCWEPENTDYAVYLCRMTQNK
 ARLELADYEAESLARLQRAFARKWEFIFMQAEAQAKVDKKRDKIERKILDSQERAFWDVHRPVPVCVNTT
 EVDIKKSSRMNPHKTRKSVYGLQNDIRSHSPHTPTPETKPTEDELQQQIKYWQIQDLDRHLKMSKVA
 DSLLSYTEQYLEYDPFLLPPDPSNPWLSDDTTFWEEASKEPSQQRVWRWFGMDKALDPVGREQLKF
 LESEFSSSENLRFWLAVEDLKKRPIKEVPSRVQEIWQEFAPGAPSAINLDSKSYDKTTHNVKEPGRYTFE
 DAQEHIYKLMKSDSYPRFIRSSAYQELLQAKKSGNSMDRRTSFEKFAQNVGKSLTSKRLTSLAQSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002915</u>
RefSeq Size:	2495
RefSeq ORF:	1461
Locus ID:	6000


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UniProt ID: [P49802](#)

Cytogenetics: 1q23.1

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]).