Regulator of G-Protein Signaling 2 (RGS2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Regulator of G-protein signaling 2 (Rgs2), Recombinant Protein
Full Product Name	Recombinant Mouse Regulator of G-protein signaling 2 (Rgs2)
Product Gene Name	Rgs2 recombinant protein
Sequence	MQSAMFLAVQ HDCVPMDKSA GNGPKVEEKR EKMKRTLLKD WKTRLSYFLQ NSSAPGKPKT GKKSKQQTFI KPSPEEAQLW AEAFDELLAS KYGLAAFRAF LKSEFCEENI EFWLACEDFK KTKSPQKLSS KARKIYTDFI EKEAPKEINI DFQTKSLIAQ NIQEATSGCF TTAQKRVYSL MENNSYPRFL ESEFYQDLCK KPQITTEPHA T
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	24,294 Da
Sequence Positions	1-211, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O08849
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rgs2 recombinant protein	Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 2 belongs to this family. The protein acts as a mediator of myeloid differentiation and may play a role in leukemogenesis.
Other Notes	Small volumes of Rgs2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Rgs2 purchase	MBS1255603 is a recombinant protein targeting Rgs2. Also known as Recombinant Mouse Regulator of G-protein signaling 2 (Rgs2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rgs2. It may not necessarily be applicable to this product.

NCBI GI #	31543586
NCBI GeneID	19735
NCBI Accession #	NP_033087.2
UniProt Primary Accession #	O08849

UniProt Secondary Accession #	Q544S7; Q91WX1; Q9JL24
UniProt Related Accession #	O08849
GenBank Nucleotide #	NM_009061.4
NCBI Official Full Name	regulator of G-protein signaling 2
NCBI Official Synonym Full Names	regulator of G-protein signaling 2
NCBI Official Symbol	Rgs2
NCBI Official Synonym Symbols	GOS8
UniProt Protein Name	Regulator of G-protein signaling 2
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	Rgs2
UniProt Synonym Gene Names	RGS2
NCBI Protein Information	regulator of G-protein signaling 2
UniProt Comments for Rgs2	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 (). It is involved in the negative regulation of the angiotensin-activated signaling pathway (). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (PubMed:14608379). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein ().
Research Articles on Rgs2	**1.** RGS2 has critical roles in maintaining pancreatic beta-cell mass via modulating beta-cell function and apoptosis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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