Regulator of G-Protein Signaling 10 (RGS10) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Regulator of G-protein signaling 10 (RGS10), Recombinant Protein
Full Product Name	Recombinant Bovine Regulator of G-protein signaling 10 (RGS10)
Product Gene Name	RGS10 recombinant protein
Product Synonym Gene Name	RGS10
Sequence	MFNRAVSRLS RKRPPSDIHD SDGSSSSSHQ TPKSTAKWAS SLENLLEDPE GVKRFREFLK KEFSEENVLF WLACEDFKKT QDKKQMQEKA KEIYMTFLSS KASSQVNVEG QSRLNEKILE EPHPLMFQKL QDQIFNLMKY DSYSRFLKSD LFLKHKRTEE EDEESPDAQT AAKRASRIYN 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	21,195 Da
Sequence Positions	1-181, 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 Q2KHW7
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RGS10 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 10 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alphai3 and G-alphaz but fails to interact with the structurally and functionally distinct G-alpha subunits. Regulator of G protein signaling 10 protein is localized in the nucleus. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of RGS10 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 RGS10 purchase	MBS1484881 is a recombinant protein targeting RGS10. Also known as Recombinant Bovine Regulator of G-protein signaling 10 (RGS10). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RGS10. It may not necessarily be applicable to this product.

NCBI GI #	114052440

NCBI GeneID	614550
NCBI Accession #	NP_001040005.1
UniProt Primary Accession #	Q2KHW7
UniProt Related Accession #	Q2KHW7
GenBank Nucleotide #	NM_001046540.2
NCBI Official Full Name	regulator of G-protein signaling 10
NCBI Official Synonym Full Names	regulator of G protein signaling 10
NCBI Official Symbol	RGS10
UniProt Protein Name	Regulator of G-protein signaling 10
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	RGS10
UniProt Synonym Gene Names	RGS10
NCBI Protein Information	regulator of G-protein signaling 10
UniProt Comments for RGS10	Regulates G protein-coupled receptor signaling cascades, including signaling downstream of the muscarinic acetylcholine receptor CHRM2. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form. Modulates the activity of potassium channels that are activated in response to CHRM2 signaling. Activity on GNAZ is inhibited by palmitoylation of the G-protein.
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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