Regulator of G-Protein Signaling 20 (RGS20) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	Regulator of G-protein signaling 20 (RGS20), Recombinant Protein
Full Product Name	Recombinant Chicken Regulator of G-protein signaling 20 (RGS20)
Product Gene Name	RGS20 recombinant protein
Product Synonym Gene Name	RGS20
Sequence	MGSERTEMRK RQMAATQETP GTAQAQHSVG NRGPNACCFC WCCCCSCSCL TVRNQEEERA RRTSHELQAE GIPNCEESPA PTLEEVNAWA QSFDKLMLTP AGRNAFREFL RTEFSEENML FWMACEELKQ ESNKSVIEEK ARLIYEDYIS ILSPKEVSLD SRVREVINRN MLEPSQHTFD DAQLQIYTLM HRDSYPRFMN SAIYKDLLRS LSEKSIEA
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	25,141 Da
Sequence Positions	1-218, 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 Q9PWA1
Species	Chicken
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RGS20 recombinant protein	MBS1352072 is a recombinant protein targeting RGS20. Also known as Recombinant Chicken Regulator of G-protein signaling 20 (RGS20). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RGS20 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RGS20. It may not necessarily be applicable to this product.

NCBI GI #	45382309
NCBI GeneID	395646
NCBI Accession #	NP_990173.1
UniProt Primary Accession #	Q9PWA1
UniProt Related Accession #	Q9PWA1

GenBank Nucleotide #	NM_204842.2
NCBI Official Full Name	regulator of G-protein signaling 20
NCBI Official Synonym Full Names	regulator of G-protein signaling 20
NCBI Official Symbol	RGS20
NCBI Official Synonym Symbols	GzGAP
UniProt Protein Name	Regulator of G-protein signaling 20
UniProt Synonym Protein Names	Gz-selective GTPase-activating protein; G(z)GAP; Gz-GAP
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	RGS20
UniProt Synonym Gene Names	RGS20; G(z)GAP; Gz-GAP
NCBI Protein Information	regulator of G-protein signaling 20
UniProt Comments for RGS20	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds selectively to G(z)-alpha and G(alpha)-i2 subunits, accelerates their GTPase activity and regulates their signaling activities. The G(z)-alpha activity is inhibited by the phosphorylation and palmitoylation of the G-protein. Negatively regulates mu-opioid receptor-mediated activation of the G-proteins ().
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