GMP Reductase (guaC) Streptococcus Pyogenes Serotype M18 Recombinant Protein

PRODUCT OVERVIEW

Product Name	GMP reductase (guaC), Recombinant Protein
Full Product Name	Recombinant Streptococcus pyogenes serotype M18 GMP reductase (guaC)
Product Gene Name	guaC recombinant protein
Product Synonym Gene Name	guaC
Sequence	MFNEIPVFDY EDIQLIPNKC IITSRSQADT SVTLGKYQFK LPVIPANMQT IIDETIAEQL AKEGYFYIMH RFDEDSRKPF IKRMHEQGLI ASISVGVKAY EYEFVTSLKE DTPEFITIDI AHGHANSVID MIKHIKTELP ETFVIAGNVG TPEAVRELEN AGADATKVGI GPGKVCITKV KTGFGTGGWQ LAALRWCAKA ARKPIIADGG IRTHGDIAKS IRFGASMVMI GSLFAGHIES PGKTVEVNGE TFKEYYGSAS AYQKGEHKNV EGKKILLPTK GHLSDTLTEM QQDLQSSISY AGGKDLDSLR HVDYVIVKNS IWNGDSI
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	35,974 Da
Sequence Positions	1-327, 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 Q8P129
Species	Streptococcus pyogenes serotype M18
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for guaC recombinant protein	MBS1446426 is a recombinant protein targeting guaC. Also known as Recombinant Streptococcus pyogenes serotype M18 GMP reductase (guaC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of guaC 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 guaC. It may not necessarily be applicable to this product.

NCBI GI #	499327264
NCBI Accession #	WP_011017756.1
UniProt Primary Accession #	Q8P129
GenBank Nucleotide #	WP_011017756.1
NCBI Official Full Name	guanosine monophosphate reductase

UniProt Protein Name	GMP reductase
UniProt Synonym Protein Names	Guanosine 5'-monophosphate oxidoreductase
UniProt Gene Name	guaC
UniProt Synonym Gene Names	Guanosine monophosphate reductase
UniProt Comments for guaC	Catalyzes the irreversible NADPH-dependent deamination of GMP to IMP. It functions in the conversion of nucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, and in maintaining the intracellular balance of A and G nucleotides.
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