UDP-N-Acetylglucosamine--N-Acetylmuramyl- (Pentapeptide) Pyrophosphoryl-Undecaprenol N-Acetylglucosamine Transferase (murG) Streptococcus Pyogenes Serotype M2 Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylglucosamine--N-acetylmuramyl- (pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (murG), Recombinant Protein
Full Product Name	Recombinant Streptococcus pyogenes serotype M2 UDP-N-acetylglucosamine--N-acetylmuramyl- (pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (murG)
Product Gene Name	murG recombinant protein
Product Synonym Gene Name	murG
Sequence	MPKKILFTGG GTVGHVTLNL ILIPKFIKDG WEVHYIGDKN GIEHTEIEKS GLDVTFHAIA TGKLRRYFSW QNLADVFKVA LGLLQSLFIV AKLRPQALFS KGGFVSVPPV VAAKLLGKPV FIHESDRSMG LANKIAYKFA TTMYTTFEQE DQLSKVKHLG AVTKVFKDAN QMPESTQLEA VKEYFSRDLK TLLFIGGSAG AHVFNQFISD HPELKQRYNI INITGDPHLN ELSSHLYRVD YVTDLYQPLI AMADLVVTRG GSNTLFELLA MAKLHLIVPL GKEASRGDQL ENATYFEKRG YAKQLQEPDL TLHNFDQAMA DLFEHQADYE ATMLATKEIQ SPDFFYDLLR ADISSAIKEK
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	40,401 Da
Sequence Positions	1-360, 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 Q1JG11
Species	Streptococcus pyogenes serotype M2 (strain MGAS10270)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murG recombinant protein	MBS1370284 is a recombinant protein targeting murG. Also known as Recombinant Streptococcus pyogenes serotype M2 UDP-N-acetylglucosamine--N-acetylmuramyl- (pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (murG). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of murG 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 murG. It may not necessarily be applicable to this product.

NCBI GI #	545669147

NCBI Accession #	WP_021775441.1
UniProt Primary Accession #	Q1JG11
GenBank Nucleotide #	WP_021775441.1
NCBI Official Full Name	undecaprenyldiphospho-muramoylpentapeptide beta-N- acetylglucosaminyltransferase
UniProt Protein Name	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase
UniProt Synonym Protein Names	Undecaprenyl-PP-MurNAc-pentapeptide-UDPGlcNAc GlcNAc transferase
Protein Family	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase
UniProt Gene Name	murG
UniProt Comments for murG	Cell wall formation. Catalyzes the transfer of a GlcNAc subunit on undecaprenyl-pyrophosphoryl-MurNAc-pentapeptide (lipid intermediate I) to form undecaprenyl-pyrophosphoryl-MurNAc-(pentapeptide)GlcNAc (lipid intermediate II).
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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