UDP-N-Acetylglucosamine--N-Acetylmuramyl-(Pentapeptide) Pyrophosphoryl-Undecaprenol N-Acetylglucosamine Transferase (murG) Thermoanaerobacter Tengcongensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (murG), Recombinant Protein
Full Product Name	Recombinant Thermoanaerobacter tengcongensis UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (murG)
Product Gene Name	murG recombinant protein
Product Synonym Gene Name	murG; TTE1645
Product Synonym Names	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase; EC=2.4.1.227; Undecaprenyl-PP-MurNAc-pentapeptide-UDPGlcNAc GlcNAc transferase
Sequence	MRYLFAGGGT GGHIYPAVAI AKEILKNEQD AQILFVGTEK GLEKELVPRE GFELVTIEVQ GFKRKLSFDT LKTVYKAFTG FKQANKILKD FKPHVVIGTG GYVCGPVLMA AVIKRIPTLI HEQNAFPGLT NRLLSPFVDI VAVSFEDSVK YFKKAKKVVV TGNPIREELL RVKKEEGREK LGFSMSKPLV VSVGGSRGAE KINSTMVELL KIKDRKFQVL IITGSSNYDK VLEKVKKENV VLDDSVKIVP YSHEMQYVYA AADIMICRAG AITLSEITAV GVPSILIPSP YVANNHQEYN ARLLERQGAF HVILEKDLDA KKLYEKIEYL LSEPSLLNEM REKAKSMSRT DASYKIYQLV KTIT
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	40,680 Da
Sequence Positions	1-364aa; 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 Q8R9G6
Species	Thermoanaerobacter tengcongensis (strain DSM 15242 / JCM 11007 / NBRC 100824 / MB4) (Caldanaerobacter subterraneus subsp. tengcongensis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murG recombinant protein	MBS1455039 is a recombinant protein targeting murG. Also known as Recombinant Thermoanaerobacter tengcongensis 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 #	20808072
NCBI GeneID	996199
NCBI Accession #	NP_623243.1
UniProt Primary Accession #	Q8R9G6
UniProt Related Accession #	Q8R9G6
GenBank Nucleotide #	NC_003869.1
NCBI Official Full Name	undecaprenyldiphospho-muramoylpentapeptide beta-N-acetylglucosaminyltransferase
NCBI Official Symbol	murG
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 Entry Name	MURG_THETN
NCBI Protein Information	undecaprenyldiphospho-muramoylpentapeptide beta-N-acetylglucosaminyltransferase
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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