UDP-N-Acetylglucosamine 1-Carboxyvinyltransferase 2 (murA2) Streptococcus Pyogenes Serotype M1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2 (murA2), Recombinant Protein
Full Product Name	Recombinant Streptococcus pyogenes serotype M1 UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2 (murA2)
Product Gene Name	murA2 recombinant protein
Product Synonym Gene Name	murA2
Sequence	MRKIIINGGK ALSGEVAVSG AKNSVVALIP AIILADDIVI LDGVPAISDV DSLIEIMELM GATVNYHGDT LEIDPRGVQD IPMPYGKINS LRASYYFYGS LLGRFGQAVV GLPGGCDLGP RPIDLHLKAF EAMGVEVSYE GENMNLSTNG QKIHGAHIYM DTVSVGATIN TMVAATKAQG KTVIENAARE PEIIDVATLL NNMGAHIRGA GTDIITIQGV QKLHGTRHQV IPDRIEAGTY IALAAAIGKG VKITNVLYEH LESFIAKLEE MGVRMTVEED AIFVEKQESL KAITIKTSPY PGFATDLQQP LTPLLLKADG RGTIIDTIYE KRINHVPELM RMGADISVIG GQIVYQGPSR LTGAQVKATD LRAGAALVTA GLIAEGKTEI TNIEFILRGY ASIIAKLTAL GADIQLIED
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	44,663 Da
Sequence Positions	1-419, 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 Q99Z78
Species	Streptococcus pyogenes serotype M1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murA2 recombinant protein	MBS1423412 is a recombinant protein targeting murA2. Also known as Recombinant Streptococcus pyogenes serotype M1 UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2 (murA2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of murA2 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 murA2. It may not necessarily be applicable to this product.

NCBI GI #	15675291
NCBI GeneID	901433
NCBI Accession #	NP_269465.1

UniProt Primary Accession #	Q99Z78
UniProt Secondary Accession #	Q48Y47
GenBank Nucleotide #	NC_002737.2
NCBI Official Full Name	putative UDP-N-acetylglucosamine 1-carboxyvinyltransferase
NCBI Official Symbol	murZ
UniProt Protein Name	UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2
UniProt Synonym Protein Names	Enoylpyruvate transferase 2
Protein Family	UDP-N-acetylglucosamine 1-carboxyvinyltransferase
UniProt Gene Name	murA2
UniProt Synonym Gene Names	EPT 2
NCBI Protein Information	putative UDP-N-acetylglucosamine 1-carboxyvinyltransferase
UniProt Comments for murA2	Cell wall formation. Adds enolpyruvyl to UDP-N-acetylglucosamine.
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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