N-Acetylmuramic Acid 6-Phosphate Etherase (murQ) Recombinant Protein

PRODUCT OVERVIEW

Product Name	N-acetylmuramic acid 6-phosphate etherase (murQ), Recombinant Protein
Full Product Name	Recombinant Actinobacillus pleuropneumoniae serotype 5b N-acetylmuramic acid 6-phosphate etherase (murQ)
Product Gene Name	murQ recombinant protein
Sequence	MSEKNLLTAL SKMITEQRNP NSMNIDQLSA LELVKVINQE DKQVPLAVEK CLAQIAQAVE KIVQAFQNGG RLVYIGAGTS GRLGVLDASE CPPTYGVPPE IVVGIIAGGE RALRHPIEGA EDNTERGKAD LQAVNFSQKD VLVGIAASGR TPYVIGALEY AKSLGATTVS IASNPNSAMA QIAEIAIDTV VGPEVLTGSS RMKSGTAQKL VLNMLTTASM VMIGKCYSNL MVDVQASNEK LKARAIKIVM EATECDRTVA ENTLKIAENN AKLAIMMILS DSDKTTAEQL LSKHHGKLRQ ALVN
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	32,372 Da
Sequence Positions	1-304, Full length
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 A3N2I4
Species	Actinobacillus pleuropneumoniae serotype 5b (strain L20)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murQ recombinant protein	MBS1239151 is a recombinant protein targeting murQ. Also known as Recombinant Actinobacillus pleuropneumoniae serotype 5b N-acetylmuramic acid 6-phosphate etherase (murQ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of murQ 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 murQ. It may not necessarily be applicable to this product.

NCBI GI #	497561060
NCBI Accession #	WP_009875244.1
UniProt Primary Accession #	A3N2I4
GenBank Nucleotide #	WP_009875244.1
NCBI Official Full Name	N-acetylmuramic acid 6-phosphate etherase

UniProt Protein Name	N-acetylmuramic acid 6-phosphate etherase
UniProt Synonym Protein Names	N-acetylmuramic acid 6-phosphate hydrolase
Protein Family	N-acetylmuramic acid 6-phosphate etherase
UniProt Gene Name	murQ
UniProt Synonym Gene Names	MurNAc-6-P etherase
UniProt Comments for murQ	Specifically catalyzes the cleavage of the D-lactyl ether substituent of MurNAc 6-phosphate, producing GlcNAc 6-phosphate and D-lactate. Together with AnmK, is also required for the utilization of anhydro-N-acetylmuramic acid (anhMurNAc) either imported from the medium or derived from its own cell wall murein, and thus plays a role in cell wall recycling.
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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