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

PRODUCT OVERVIEW

Product Name	N-acetylmuramic acid 6-phosphate etherase (murQ), Recombinant Protein
Full Product Name	Recombinant Photobacterium profundum N-acetylmuramic acid 6-phosphate etherase (murQ)
Product Gene Name	murQ recombinant protein
Product Synonym Gene Name	murQ
Sequence	MKIDLTNLIT ESRNTASQHI DTLSTIDMLK VINDEDKKVA LAVEKTLPEI SQVVDAITEA FKKGGRLIYT GAGTSGRLGI LDASECPPTY GSKPEQVVGL IAGGHTAILR AVENAEDNRE LGEGDLKGLN FNEKDVLVGI AASGRTPYVL GAMAYAKSVN ATVACISCNP NSPMTAAADI SITPVVGAEV VTGSSRMKAG TAQKLVLNML TTGAMIRSGK VFGNLMVDVE ATNAKLVERQ KKIVIEATDC SREEAESALA ACNGHCKTAI VMVLAQLSAE EAKQLLDNNK GFIRAAIAAG K
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	31,560 Da
Sequence Positions	1-301, 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 Q6LL16
Species	Photobacterium profundum (Photobacterium sp. (strain SS9))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murQ recombinant protein	MBS1404287 is a recombinant protein targeting murQ. Also known as Recombinant Photobacterium profundum 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 #	499539574
NCBI Accession #	WP_011220357.1
UniProt Primary Accession #	Q6LL16
GenBank Nucleotide #	WP_011220357.1

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.
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