UDP-N-Acetylmuramoyl-L-Alanyl-D-Glutamate--2,6-Diaminopimelate Ligase (murE) Pseudomonas Syringae Pv. Tomato Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase (murE), Recombinant Protein
Full Product Name	Recombinant Pseudomonas syringae pv. tomato UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase (murE)
Product Gene Name	murE recombinant protein
Product Synonym Gene Name	murE
Sequence	MAFNLSKIFA HTDRDPLIRE LTLDSRNVRP GDLFLAVPGI KVDGRAHIAD ALKRGAAAVA YEVEGATVLP ITDVPLIPVK GLAAQLSDVA GRFYGDPSRS LNLVGVTGTN GKTSVTQLVA QALDALGQRC GIVGTLGTGF YGALQSGRHT TPDPIAVQAA LTDLRKAGAR AVAMEVSSHG LDQGRATALA FDVAVLTNLS RDHLDYHGTM EAYAAAKAKL FAWPNLNCRV INLDDDFGRE LAGLKQESRL ITYSQLDSSA YLYCRDAKFD DDGVRATLVT PQGEHFLRSS LLGRFNLSNV LAAVGALLGL DYALDEILKV LPKLEGPVGR MQRLGGADKP LVVVDYAHTP DALEKVLEAL RPHAKGRLLC LFGCGGDRDR GKRPLMAEVV ERLADGVWVT DDNPRSEAPT NIFDDIRPGF VTADKVRFIE GRGQAIAELI ASATVDDVVV LAGKGHEDYQ EIDGKRQPFS DLEEAATALA AWGPEND
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	52,197 Da
Sequence Positions	1-487, 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 Q87WY0
Species	Pseudomonas syringae pv. tomato (strain DC3000)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murE recombinant protein	MBS1474376 is a recombinant protein targeting murE. Also known as Recombinant Pseudomonas syringae pv. tomato UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase (murE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of murE 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 murE. It may not necessarily be applicable to this product.

NCBI GI #	28871548
NCBI GeneID	1186094

NCBI Accession #	NP_794167.1
UniProt Primary Accession #	Q87WY0
UniProt Related Accession #	Q87WY0
GenBank Nucleotide #	NC_004578.1
NCBI Official Full Name	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase
NCBI Official Symbol	murE
UniProt Protein Name	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase
UniProt Synonym Protein Names	Meso-A2pm-adding enzyme
Protein Family	Putative UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase
UniProt Gene Name	murE
NCBI Protein Information	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase
UniProt Comments for murE	Catalyzes the addition of meso-diaminopimelic acid to the nucleotide precursor UDP-N-acetylmuramoyl-L-alanyl-D-glutamate (UMAG) in the biosynthesis of bacterial cell-wall peptidoglycan.
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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