Membrane-Bound Lytic Murein Transglycosylase F (mltF) Pseudomonas Syringae Pv. Tomato Recombinant Protein

PRODUCT OVERVIEW

Product Name	Membrane-bound lytic murein transglycosylase F (mltF), Recombinant Protein
Full Product Name	Recombinant Pseudomonas syringae pv. tomato Membrane-bound lytic murein transglycosylase F (mltF)
Product Gene Name	mltF recombinant protein
Product Synonym Gene Name	mltF
Sequence	KPTTLERVKE DGVLRVITRN SPATYFQDRN GETGFEYELV KRFADDLGVE LKIETADNLD DLFDQMNKPG GPVLGAAGLI ETSKRKQQAR FSHSYLEVTP QVVYRNGQSR PTDPGDLVGK RIVVLKGSAH AEQLAALKAQ TPAIEYEESD AVEVVDLLRM VDEGQIDLTL VDSNELAMNQ VYFPNVRVAF DLGEAREQRW AVAPGEDNSL LNEINAYLDK VEKNGTLQRL KDRYYGHVDV LGYVGAYTFA QHLQERLPKY EKHFQTSAKK EQVDWRLLAA IGYQESMWQP AVTSKTGVRG LMMLTQNTAQ AMGVTNRLDA RQSIQGGAKY FAYVKDQLDD KIQEPDRTWL ALASYNIGGG HLEDARKLAE NEGLNPNKWL DVKKMLPRLA QKKWYSKTRY GYARGGEPVH FVANIRRYYD ILTWVTQPQL EGSQVADGNL HVPGVDKTQP PAPTAPVVPA SSPEKPAL
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	55,849 Da
Sequence Positions	30-497, 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 Q886W7
Species	Pseudomonas syringae pv. tomato (strain DC3000)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mltF recombinant protein	MBS1403492 is a recombinant protein targeting mltF. Also known as Recombinant Pseudomonas syringae pv. tomato Membrane-bound lytic murein transglycosylase F (mltF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mltF 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 mltF. It may not necessarily be applicable to this product.

NCBI GI #	28868665
NCBI GeneID	1183095

NCBI Accession #	NP_791284.1
UniProt Primary Accession #	Q886W7
GenBank Nucleotide #	NC_004578.1
NCBI Official Full Name	periplasmic binding domain/transglycosylase SLT domain fusion protein
NCBI Official Symbol	PSPTO_1458
UniProt Protein Name	Membrane-bound lytic murein transglycosylase F
UniProt Synonym Protein Names	Murein lyase F
Protein Family	Membrane-bound lytic murein transglycosylase
UniProt Gene Name	mltF
NCBI Protein Information	periplasmic binding domain/transglycosylase SLT domain fusion protein
UniProt Comments for mltF	Murein-degrading enzyme that degrades murein glycan strands and insoluble, high-molecular weight murein sacculi, with the concomitant formation of a 1,6-anhydromuramoyl product. Lytic transglycosylases (LTs) play an integral role in the metabolism of the peptidoglycan (PG) sacculus. Their lytic action creates space within the PG sacculus to allow for its expansion as well as for the insertion of various structures such as secretion systems and flagella.
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