Membrane-Bound Lytic Murein Transglycosylase F 1 (mltF1) Alkalilimnicola Ehrlichei Recombinant Protein

PRODUCT OVERVIEW

Product Name	Membrane-bound lytic murein transglycosylase F 1 (mltF1), Recombinant Protein
Full Product Name	Recombinant Alkalilimnicola ehrlichei Membrane-bound lytic murein transglycosylase F 1 (mltF1)
Product Gene Name	mltF1 recombinant protein
Product Synonym Gene Name	mltF1
Sequence	WERARDPEPI TILERVLERG ELRVITRISA TTYYQTDKGR AGLEFELAQA FAHRLGVQLR MLVAPDLEAI FAALDDGEAD LAAAGLTYTE SRGQRYWFTP PYKDITQQLV YRVGTPRPDD LSEIGPGELA VIANSSHADR LRELRNRSHP DLTWAEDEHA DSEAMLYRVW NEELRYTVAD SHELSINRAY YPELRKAFEI SGVEGLAWAF PRTEDLSLYN EAARYFTDLR LEGTLSTLLE EHFGHLGRFD YVGFRAFNRH VADRLPRYRH WFEEAAEEYG VDWRLLAAIG YQESHWDPQA VSPTGVRGIM MLTLDTASML GVDNRLDPKQ SIFGGARYFS RLLERLPEDI EEPHRAWMAL AAYNVGYGHL QDARRLARQR GYDPNDWRVI RDHLPLLSQR QWYVQTRHGY ARGWEPVHYV RNIRLYYQLL QRITEPGRRQ VPAGEALGEP PLPTPPAPPG APLPADPPAD
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	56,647 Da
Sequence Positions	25-494, 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 Q0A9W6
Species	Alkalilimnicola ehrlichei (strain MLHE-1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mltF1 recombinant protein	MBS1343595 is a recombinant protein targeting mltF1. Also known as Recombinant Alkalilimnicola ehrlichei Membrane-bound lytic murein transglycosylase F 1 (mltF1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mltF1 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 mltF1. It may not necessarily be applicable to this product.

NCBI GI #	499948032
NCBI Accession #	WP_011628766.1

UniProt Primary Accession #	Q0A9W6
GenBank Nucleotide #	WP_011628766.1
NCBI Official Full Name	lytic transglycosylase F
UniProt Protein Name	Membrane-bound lytic murein transglycosylase F 1
UniProt Synonym Protein Names	Murein lyase F 1
Protein Family	Membrane-bound lytic murein transglycosylase
UniProt Gene Name	mltF1
UniProt Comments for mltF1	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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