Penicillin-Insensitive Murein Endopeptidase (mepA) Shigella Flexneri Recombinant Protein

PRODUCT OVERVIEW

Product Name	Penicillin-insensitive murein endopeptidase (mepA), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri Penicillin-insensitive murein endopeptidase (mepA)
Product Gene Name	mepA recombinant protein
Sequence	ATPWQKITQP VPGSAQSIGS FSNGCIVGAD TLPIQSEHYQ VMRTDQRRYF GHPDLVMFIQ RLSSQVSNLG MGTVLIGDMG MPAGGRFNGG HASHQTGLDV DIFLQLPKTR WTSAQLLRPQ ALDLVSRDGK HVVSTLWKPE IFSLIKLAAQ DKDVTRIFVN PAIKQQLCLD AGTDRDWLRK VRPWFQHRAH MHVRLRCPAD SLECEDQPLP PSGDGCGAEL QSWFEPPKPG TTKPEKKTPP PLPPSCQALL DEHVI
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	30,137 Da
Sequence Positions	20-274, 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 P0C0T6
Species	Shigella flexneri
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mepA recombinant protein	MBS1257055 is a recombinant protein targeting mepA. Also known as Recombinant Shigella flexneri Penicillin-insensitive murein endopeptidase (mepA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mepA 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 mepA. It may not necessarily be applicable to this product.

NCBI GI #	24113700
NCBI GeneID	1025542
NCBI Accession #	NP_708210.1
UniProt Primary Accession #	P0C0T6
UniProt Secondary Accession #	P14007
GenBank Nucleotide #	NC_004337.2

NCBI Official Full Name	penicillin-insensitive murein endopeptidase
NCBI Official Symbol	mepA
UniProt Protein Name	Penicillin-insensitive murein endopeptidase
UniProt Synonym Protein Names	D-alanyl-D-alanine-endopeptidase; DD-endopeptidase
Protein Family	Multidrug export protein
UniProt Gene Name	mepA
UniProt Synonym Gene Names	DD-endopeptidase
NCBI Protein Information	penicillin-insensitive murein endopeptidase
UniProt Comments for mepA	Murein endopeptidase that cleaves the D-alanyl-meso-2,6-diamino-pimelyl amide bond that connects peptidoglycan strands. Likely plays a role in the removal of murein from the sacculus.
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