Mannitol-Specific Cryptic Phosphotransferase Enzyme IIA Component (cmtB) Escherichia Coli O157:h7 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mannitol-specific cryptic phosphotransferase enzyme IIA component (cmtB), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O157:H7 Mannitol-specific cryptic phosphotransferase enzyme IIA component (cmtB)
Product Gene Name	cmtB recombinant protein
Sequence	MRLSDYFPES SISVIHSAKD WQEAIDFSMV SLLDKNYISE NYIQAIKDST INNGPYYILA PGVAMPHARP ECGALKTGMS LTLLEQGVYF PGNDEPIKLL IGLSAADADS HIGAIQALSE LLCEEEILEQ LLTASSEKQL ADIISRG
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	16,046 Da
Sequence Positions	1-147, 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 P69825
Species	Escherichia coli O157:H7
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cmtB recombinant protein	MBS1236924 is a recombinant protein targeting cmtB. Also known as Recombinant Escherichia coli O157:H7 Mannitol-specific cryptic phosphotransferase enzyme IIA component (cmtB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cmtB 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 cmtB. It may not necessarily be applicable to this product.

NCBI GI #	15833063
NCBI GeneID	916372
NCBI Accession #	NP_311836.1
UniProt Primary Accession #	P69825
UniProt Secondary Accession #	P32058
GenBank Nucleotide #	NC_002695.1

NCBI Official Full Name	mannitol phosphotransferase subunit EIIA
NCBI Official Symbol	cmtB
UniProt Protein Name	Mannitol-specific cryptic phosphotransferase enzyme IIA component
UniProt Synonym Protein Names	EIIA
Protein Family	2,3-dihydroxy-2,3-dihydro-p-cumate dehydrogenase
UniProt Gene Name	cmtB
NCBI Protein Information	mannitol phosphotransferase subunit EIIA
UniProt Comments for cmtB	The phosphoenolpyruvate-dependent sugar phosphotransferase system (sugar PTS), a major carbohydrate active transport system, catalyzes the phosphorylation of incoming sugar substrates concomitantly with their translocation across the cell membrane. The enzyme II CmtAB PTS system is involved in D-mannitol transport.
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