Cellobiose-Specific Phosphotransferase Enzyme IIB Component (celA) Geobacillus Stearothermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cellobiose-specific phosphotransferase enzyme IIB component (celA), Recombinant Protein
Full Product Name	Recombinant Geobacillus stearothermophilus Cellobiose-specific phosphotransferase enzyme IIB component (celA)
Product Gene Name	celA recombinant protein
Product Synonym Gene Name	celA
Sequence	MNILLICAAG MSTSLLVTKM KEAAKQKGIE ANIWAVSADE AKSHLDQADV VLIGPQIRYK LAAFKKEGEA RGIPVDVINP ADYGRVNGAG VLDFALRLKK
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	10,737 Da
Sequence Positions	1-100, 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 Q45399
Species	Geobacillus stearothermophilus (Bacillus stearothermophilus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for celA recombinant protein	MBS1327270 is a recombinant protein targeting celA. Also known as Recombinant Geobacillus stearothermophilus Cellobiose-specific phosphotransferase enzyme IIB component (celA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of celA 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 celA. It may not necessarily be applicable to this product.

NCBI GI #	2499992
NCBI Accession #	Q45399.1
UniProt Primary Accession #	Q45399
NCBI Official Full Name	PTS system cellobiose-specific EIIB component
UniProt Protein Name	PTS system cellobiose-specific EIIB component

UniProt Synonym Protein Names	Cellobiose-specific phosphotransferase enzyme IIB component
Protein Family	Cellodextrinase
UniProt Gene Name	celA
UniProt Comments for celA	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 CelABD PTS system is involved in cellobiose transport.
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