Heptaprenylglyceryl Phosphate Synthase (pcrB) Listeria Monocytogenes Serotype 4a Recombinant Protein

PRODUCT OVERVIEW

Product Name	Heptaprenylglyceryl phosphate synthase (pcrB), Recombinant Protein
Full Product Name	Recombinant Listeria monocytogenes serotype 4a Heptaprenylglyceryl phosphate synthase (pcrB)
Product Gene Name	pcrB recombinant protein
Sequence	MKHLFKLDPA KNLPMNDLTK LVHSGTDGFI IGGTDNVQIE AVQKLYELLG ETDLPIFLEI SNESMILPEA DHFLIPVVLN TENSKWTHGL HQELIKEMGA FIPWKRVTAE GYVILNKDAK VAHLTEAKTD LTDEDIVAYA RLAENIFHLP IFYVEYSGMY GDPEVVRKAG AALSNTKFWY GGGIRSKEQA AEMAKYADTI IVGNIIYEDL EKALETATIF RKKTV
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	25,258 Da
Sequence Positions	1-225, 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 B8DFG3
Species	Listeria monocytogenes serotype 4a (strain HCC23)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pcrB recombinant protein	MBS1224256 is a recombinant protein targeting pcrB. Also known as Recombinant Listeria monocytogenes serotype 4a Heptaprenylglyceryl phosphate synthase (pcrB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pcrB 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 pcrB. It may not necessarily be applicable to this product.

NCBI GI #	489826033
NCBI Accession #	WP_003729807.1
UniProt Primary Accession #	B8DFG3
GenBank Nucleotide #	WP_003729807.1
NCBI Official Full Name	geranylgeranylglyceryl/heptaprenylglyceryl phosphate synthase

UniProt Protein Name	Heptaprenylglyceryl phosphate synthase
UniProt Synonym Protein Names	Glycerol-1-phosphate heptaprenyltransferase
Protein Family	Heptaprenylglyceryl phosphate synthase
UniProt Gene Name	pcrB
UniProt Synonym Gene Names	HepGP synthase
UniProt Comments for pcrB	Prenyltransferase that catalyzes in vivo the transfer of the heptaprenyl moiety of heptaprenyl pyrophosphate (HepPP; 35 carbon atoms) to the C3 hydroxyl of sn-glycerol-1-phosphate (G1P), producing heptaprenylglyceryl phosphate (HepGP). This reaction is an ether-bond-formation step in the biosynthesis of archaea-type G1P-based membrane lipids found in Bacillales.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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