2-C-Methyl-D-Erythritol 2,4-Cyclodiphosphate Synthase (ispF) Pseudomonas Putida Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF), Recombinant Protein
Full Product Name	Recombinant Pseudomonas putida 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF)
Product Gene Name	ispF recombinant protein
Product Synonym Gene Name	ispF
Sequence	MRIGHGYDVH RFCDGDFITL GGVRIPHKYG LLAHSDGDVL LHALSDALLG AAALGDIGKH FPDTDPQFKG ADSRALLRHV VGIVKAKGWK VGNVDATIVA QAPKMAPHIE TMRQLIAEDL QVELDQVNVK ATTTEKLGFT GREEGIAVHS VALLLPA
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	16,816 Da
Sequence Positions	1-157, 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 Q88MF3
Species	Pseudomonas putida (strain KT2440)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispF recombinant protein	MBS1386878 is a recombinant protein targeting ispF. Also known as Recombinant Pseudomonas putida 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ispF 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 ispF. It may not necessarily be applicable to this product.

NCBI GI #	26988350
NCBI GeneID	1044870
NCBI Accession #	NP_743775.1
UniProt Primary Accession #	Q88MF3
UniProt Related Accession #	Q88MF3

GenBank Nucleotide #	NC_002947.4
NCBI Official Full Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase
NCBI Official Symbol	ispF
UniProt Protein Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase
Protein Family	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase
UniProt Gene Name	ispF
UniProt Synonym Gene Names	MECDP-synthase; MECPP-synthase; MECPS
NCBI Protein Information	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase
UniProt Comments for ispF	Involved in the biosynthesis of isopentenyl diphosphate (IPP) and dimethylallyl diphosphate (DMAPP), two major building blocks of isoprenoid compounds. Catalyzes the conversion of 4-diphosphocytidyl-2-C-methyl-D-erythritol 2-phosphate (CDP-ME2P) to 2-C-methyl-D-erythritol 2,4-cyclodiphosphate (ME-CPP) with a corresponding release of cytidine 5-monophosphate (CMP).
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