2-C-Methyl-D-Erythritol 2,4-Cyclodiphosphate Synthase (ispF) Shewanella Baltica Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF), Recombinant Protein
Full Product Name	Recombinant Shewanella baltica 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF)
Product Gene Name	ispF recombinant protein
Sequence	MKIRIGHGFD VHKFGAARPL ILCGVEVPYE TGLIAHSDGD VVLHAISDAI LGALALGDIG KHFPDTDTAY KGADSRVLLR HCYALARAKG FVLGNLDVTI IAQAPKMAPH IEAMRQILAA DLTSELDDIN VKATTTEQLG FTGRKEGIAV EAVVLMTRKH D
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	17,265 Da
Sequence Positions	1-161, 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 A3D792
Species	Shewanella baltica (strain OS155 / BAA-1091)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispF recombinant protein	MBS1262178 is a recombinant protein targeting ispF. Also known as Recombinant Shewanella baltica 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 #	500173012
NCBI Accession #	WP_011847437.1
UniProt Primary Accession #	A3D792
GenBank Nucleotide #	WP_011847437.1
NCBI Official Full Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase
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
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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