2-C-Methyl-D-Erythritol 2,4-Cyclodiphosphate Synthase (ispF) Thermus Thermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF), Recombinant Protein
Full Product Name	Recombinant Thermus thermophilus 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF)
Product Gene Name	ispF recombinant protein
Product Synonym Gene Name	ispF
Sequence	MRIGYGEDSH RLEEGRPLYL CGLLIPSPVG ALAHSDGDAA LHALTDALLS AYGLGDIGLL FPDTDPRWRG ERSEVFLREA LRLVEARGAK LLQASLVLTL DRPKLGPHRK ALVDSLSRLL RLPQDRIGLT FKTSEGLAPS HVQARAVVLL DG
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	16,520 Da
Sequence Positions	1-152, 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 Q8RQP5
Species	Thermus thermophilus (strain HB8 / 27634 / DSM 579)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispF recombinant protein	MBS1448912 is a recombinant protein targeting ispF. Also known as Recombinant Thermus thermophilus 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 #	499548136
NCBI Accession #	WP_011228919.1
UniProt Primary Accession #	Q8RQP5
UniProt Secondary Accession #	Q5SHE0
GenBank Nucleotide #	WP_011228919.1

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).
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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