2-C-Methyl-D-Erythritol 2,4-Cyclodiphosphate Synthase (ispF) Haemophilus Somnus Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF), Recombinant Protein
Full Product Name	Recombinant Haemophilus somnus 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF)
Product Gene Name	ispF recombinant protein
Product Synonym Gene Name	ispF
Sequence	MIRIGHGFDV HAFGGEGPII IGGVAIPYEK GLVAHSDGDV ALHALTDALL GAMALGDIGK LFPDTDIQYK GADSRRLLRT AYQAILDKGY QVGNVDITII AQAPKMRPYI DAMRTVIAQD LHCDIEQVNV KATTTEKLGF TGRSEGIACE AVALLIKQTG TK
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	17,275 Da
Sequence Positions	1-162, 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 Q0I5H9
Species	Haemophilus somnus (strain 129Pt) (Histophilus somni (strain 129Pt))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispF recombinant protein	MBS1305846 is a recombinant protein targeting ispF. Also known as Recombinant Haemophilus somnus 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 #	499928915
NCBI Accession #	WP_011609649.1
UniProt Primary Accession #	Q0I5H9
GenBank Nucleotide #	WP_011609649.1
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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