# 2-C-Methyl-D-Erythritol 4-Phosphate Cytidylyltransferase (ispD) Chlorobium Tepidum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase (ispD), Recombinant Protein |
| **Full Product Name** | Recombinant Chlorobium tepidum 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase (ispD) |
| **Product Gene Name** | ispD recombinant protein |
| **Product Synonym Gene Name** | ispD |
| **Sequence** | MKTVVIIAAS GVGKRMKLDG GRSKQMLEIG GQPVIWHTMK AFQEASTVES VYIATLPDSI PVFKEIAKAN GFTKITAIIE GGKERQDSIG NCMKLIEQEI ENSGVMPDAI LVHDGARPFI QPEEIDDIAR LSATHGACVP ATKPKDTIKY VGCNPEIFGE TLDRSRLLQV QTPQGFAPAK LIEAHRLAGE EQWYATDDAA LVERYFPQQA IRIYETGYHN IKITTPEDVF IGEAILAGLK ARKSKN |
| **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** | 27,022 Da |
| **Sequence Positions** | 1-246, 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 Q8KCU3 |
| **Species** | Chlorobium tepidum (strain 49652 / DSM 12025 / TLS) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for ispD recombinant protein** | MBS1281871 is a recombinant protein targeting ispD. Also known as Recombinant Chlorobium tepidum 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase (ispD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of ispD 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 ispD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 21674140 |
| **NCBI GeneID** | 1006683 |
| **NCBI Accession #** | NP_662205.1 |
| **UniProt Primary Accession #** | Q8KCU3 |

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| **UniProt Related Accession #** | Q8KCU3 |
| **GenBank Nucleotide #** | NC_002932.3 |
| **NCBI Official Full Name** | 4-diphosphocytidyl-2C-methyl-D-erythritol synthase |
| **NCBI Official Symbol** | ispD |
| **UniProt Protein Name** | 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase |
| **UniProt Synonym Protein Names** | 4-diphosphocytidyl-2C-methyl-D-erythritol synthase |
| **Protein Family** | 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase |
| **UniProt Gene Name** | ispD |
| **UniProt Synonym Gene Names** | MCT |
| **NCBI Protein Information** | 4-diphosphocytidyl-2C-methyl-D-erythritol synthase |
| **UniProt Comments for ispD** | Catalyzes the formation of 4-diphosphocytidyl-2-C-methyl-D-erythritol from CTP and 2-C-methyl-D-erythritol 4-phosphate (MEP). |
| **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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