2-C-Methyl-D-Erythritol 4-Phosphate Cytidylyltransferase (ispD) Nocardia Farcinica Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase (ispD), Recombinant Protein
Full Product Name	Recombinant Nocardia farcinica 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase (ispD)
Product Gene Name	ispD recombinant protein
Product Synonym Gene Name	ispD
Sequence	MNDADNDGSV VALVPAAGRG VRLGEKSPKA FVPVGGTPMV RLAVDGLLAA GVVDRIIVMV PAEWVESAVA LLPPSEVVRV VVGGAERTDS VRAGLAAAPD AGYFLVHDAA RALTPPALIG RIVGELRAGR RAVVPALPVV DTVKSVDAAG VVTGTPDRAA LRAVQTPQGF TADLLRAAYA ADVPATDDAG LVERLGEPVH TVAGDPLAFK ITTPLDLRLA ETLLDRRAAL
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	23,547 Da
Sequence Positions	1-230, 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 Q5Z2R3
Species	Nocardia farcinica (strain IFM 10152)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispD recombinant protein	MBS1345450 is a recombinant protein targeting ispD. Also known as Recombinant Nocardia farcinica 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.

NCBI GI #	499520325
NCBI Accession #	WP_011206965.1
UniProt Primary Accession #	Q5Z2R3
GenBank Nucleotide #	WP_011206965.1

NCBI Official Full Name	2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase
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
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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