4-Hydroxy-3-Methylbut-2-Enyl Diphosphate Reductase (ispH) Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxy-3-methylbut-2-enyl diphosphate reductase (ispH), Recombinant Protein
Full Product Name	Recombinant Francisella tularensis subsp. mediasiatica 4-hydroxy-3-methylbut-2-enyl diphosphate reductase (ispH)
Product Gene Name	ispH recombinant protein
Sequence	MKILLANPRG FCAGVSRAVE TVEKVLEVEK SPVYVRHEVV HNKVVVDSLK KKGVVFVKEV DEVPDDAVCI FSAHGVSLKV EEAAAKKNLV LYDATCPLVT KVHRGVRLAS NNDAECILIG HKGHPEVQGT MGQYRSKKGA IYLIESEEDL NKLTIKDPDN LYYATQTTLS VDETQGIIQA LKDKYPNIKG PKKEDICYAT QNRQTAIKAM LKHIDVLVVV GSQNSSNSNR LKELATLEGI DAYLVDNPKD VDKLWFDNKK VCGVSAGASA PEYLVQQIIS QISKVCSTEV EEFEGIKEEV YFPLPRLLKQ KIGTGKVE
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	35,152 Da
Sequence Positions	1-318, 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 B2SES8
Species	Francisella tularensis subsp. mediasiatica (strain FSC147)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispH recombinant protein	MBS1225850 is a recombinant protein targeting ispH. Also known as Recombinant Francisella tularensis subsp. mediasiatica 4-hydroxy-3-methylbut-2-enyl diphosphate reductase (ispH). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ispH 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 ispH. It may not necessarily be applicable to this product.

NCBI GI #	489110932
NCBI GeneID	3190808
NCBI Accession #	WP_003020788.1
UniProt Primary Accession #	B2SES8
UniProt Related Accession #	Q5NGK4

GenBank Nucleotide #	WP_003020788.1
NCBI Official Full Name	4-hydroxy-3-methylbut-2-enyl diphosphate reductase
NCBI Official Symbol	ispH
UniProt Protein Name	4-hydroxy-3-methylbut-2-enyl diphosphate reductase
Protein Family	4-hydroxy-3-methylbut-2-enyl diphosphate reductase
UniProt Gene Name	ispH
UniProt Synonym Gene Names	HMBPP reductase
NCBI Protein Information	4-hydroxy-3-methylbut-2-enyl diphosphate reductase
UniProt Comments for ispH	Catalyzes the conversion of 1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphate (HMBPP) into a mixture of isopentenyl diphosphate (IPP) and dimethylallyl diphosphate (DMAPP). Acts in the terminal step of the DOXP/MEP pathway for isoprenoid precursor biosynthesis.
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