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

PRODUCT OVERVIEW

Product Name	4-hydroxy-3-methylbut-2-enyl diphosphate reductase (ispH), Recombinant Protein
Full Product Name	Recombinant Geobacter metallireducens 4-hydroxy-3-methylbut-2-enyl diphosphate reductase (ispH)
Product Gene Name	ispH recombinant protein
Product Synonym Gene Name	ispH
Sequence	MEIILAKRAG FCFGVKRATQ MAFEAAEKEG KTYSLGPIIH SPQVVHRLEE MGVKVLKGLG EITDGTIIVR SHGVTSEELE EAVRKELEVV DATCPFVKKA QENVQNLSEA GYEVVVVGDA DHPEVQGIVS YAKGKVCVVG SEEEAARLPK MKKIGIVAQT TQSFDNLKHV VLECLRKGAE IRIFNTICDA TAVRQQEATA LARTVDCMIV IGGYNSANTK RLAEVCAELQ PRTHQIETAQ EINPAWFEGV AKVGVTAGAS TPKWLIDEVI ERIREIDSAK TS
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	30,730 Da
Sequence Positions	1-282, 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 Q39XB6
Species	Geobacter metallireducens (strain GS-15 / 53774 / DSM 7210)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispH recombinant protein	MBS1335205 is a recombinant protein targeting ispH. Also known as Recombinant Geobacter metallireducens 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 #	490648017
NCBI Accession #	WP_004513012.1
UniProt Primary Accession #	Q39XB6
GenBank Nucleotide #	WP_004513012.1

NCBI Official Full Name	4-hydroxy-3-methylbut-2-enyl diphosphate reductase
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
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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