4-Hydroxy-3-Methylbut-2-En-1-Yl Diphosphate Synthase (ispG) Frankia Alni Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG), Recombinant Protein
Full Product Name	Recombinant Frankia alni 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG)
Product Gene Name	ispG recombinant protein
Product Synonym Gene Name	ispG
Sequence	MTVTLGMPAA PARPLGTRRH SRQINVGNVP VGGDAPVSVQ SMCTTLTSDV NATLQQIAQL TASGCQIVRV AVPSQDDADA LAAIARKSPI PVIADIHFQP KYVFAAIDAG CAAVRVNPGN IKAFDDKVGE IARAAKGAGI PIRIGVNAGS LDKRLLAKYG KATPEALTES ALWECSLFEE HDFRDIKISV KHHDPVVMIQ AYRLLAQSCD YPLHLGVTEA GPAFQGTVKS SVAFGALLAE GIGDTIRVSL SAPPVEEVKV GTAILESLGL RQRKLEIVSC PSCGRAQVDV YTLANQVSAG LEGMEVPLRV AVMGCVVNGP GEAREADLGV ASGNGKGQIF VKGEVVKTVP EAQIVETLIE EAMRLAEEMT ADGTPSGEPS VTVS
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	40,133 Da
Sequence Positions	1-384, 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 Q0RDR2
Species	Frankia alni (strain ACN14a)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispG recombinant protein	MBS1469579 is a recombinant protein targeting ispG. Also known as Recombinant Frankia alni 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ispG 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 ispG. It may not necessarily be applicable to this product.

NCBI GI #	497428149
NCBI Accession #	WP_009742347.1
UniProt Primary Accession #	Q0RDR2

GenBank Nucleotide #	WP_009742347.1
NCBI Official Full Name	MULTISPECIES: 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (flavodoxin)
UniProt Protein Name	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (flavodoxin)
UniProt Synonym Protein Names	1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphate synthase
Protein Family	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase
UniProt Gene Name	ispG
UniProt Comments for ispG	Converts 2C-methyl-D-erythritol 2,4-cyclodiphosphate (ME-2,4cPP) into 1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphate.
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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