4-Hydroxy-3-Methylbut-2-En-1-Yl Diphosphate Synthase (ispG) Rhizobium Leguminosarum Bv.trifolii Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG), Recombinant Protein
Full Product Name	Recombinant Rhizobium leguminosarum bv.trifolii 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG)
Product Gene Name	ispG recombinant protein
Sequence	MSPTADFDPK PRRASVAVDV GGVIVGGGAP VVVQSMTNTD TADIDSTVAQ VAALHRAGSE LVRITVDRDE SAAAVPKIRE RLLRLGMDVP LIGDFHYVGH KLLADHPDCA AALAKYRINP GNVGFKDKKD KQFAEIIEMA IRYDKPVRVG VNWGSLDQDL LTALMDENAR AGSPLSARQV TREAIVQSAL LSAALAEEIG LPRNRIILSA KVSQVQDLIA VNSMLAERSN HALHLGLTEA GMGTKGIVAS SAAMGFVLQH GIGDTIRVSL TPEPNGDRTR EVQVAQEILQ VMGFRQFIPV VAACPGCGRT TSTVFQELAQ NIQNDIRKNM PVWREKYPGV EALNVAVMGC IVNGPGESKH ADIGISLPGT GETPAAPVFI DGKKALTLRG PNIAADFEAL VVDYIEKRFG QRTAAE
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	44,417 Da
Sequence Positions	1-416, 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 B5ZUA0
Species	Rhizobium leguminosarum bv. trifolii (strain WSM2304)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispG recombinant protein	MBS1093016 is a recombinant protein targeting ispG. Also known as Recombinant Rhizobium leguminosarum bv.trifolii 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 #	501554810
NCBI Accession #	WP_012559321.1
UniProt Primary Accession #	B5ZUA0
GenBank Nucleotide #	WP_012559321.1

NCBI Official Full Name	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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