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

PRODUCT OVERVIEW

Product Name	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG), Recombinant Protein
Full Product Name	Recombinant Deinococcus radiodurans 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ispG)
Product Gene Name	ispG recombinant protein
Product Synonym Gene Name	ispG; DR_0386
Product Synonym Names	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase; EC=1.17.7.1; 1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphate synthase
Sequence	MSFDSLPALP LDPLPDAALP TAPRRRQTVS VNVGGVMVGS AHPIVVQSMT NTDTANAEAT AIQVAQLARA GSEIVRVTVN TREAAAAVPE LVQRLADIGV HVPIVGDFHY NGHLLLREYP ETARLLAKYR INPGNVGAGQ RHDENFATMI EVAKEFDKPV RIGVNWGSLD QQVLARLMDE NAAAGHPKSP TDVTIDAMIV SALDSARFAE ELGLGHDKIL ISVKVSSAPE LWQVYRQLAP LCDYPLHLGL TEAGMGMKGI VASSVALAPL LTEGIGDTIR VSLTPEPGAP RKLEVEVAQQ ILQSLGLRQF LPQVTSCPGC GRTTSSFFQT LAQKIQDFIR ESMPEWKAKY PGVEDMQVAV MGCVVNGPGE SKHANIGISL PGTGEDPRAP VYQDGKLLTT LKGPRIAEEF QELLEKYVEE RYGQGVAQG
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	46,130 Da
Sequence Positions	1-429aa; 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 Q9RXC9
Species	Deinococcus radiodurans (strain 13939 / DSM 20539 / JCM 16871 / LMG 4051 / NBRC 15346 / NCIMB 9279 / R1 / VKM B-1422)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ispG recombinant protein	MBS1432173 is a recombinant protein targeting ispG. Also known as Recombinant Deinococcus radiodurans 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 #	15805413
NCBI GeneID	1799325
NCBI Accession #	NP_294109.1
UniProt Primary Accession #	Q9RXC9
UniProt Related Accession #	Q9RXC9
GenBank Nucleotide #	NC_001263.1
NCBI Official Full Name	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase
NCBI Official Symbol	ispG
NCBI Official Synonym Symbols	gcpE
UniProt Protein Name	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase
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 Entry Name	ISPG_DEIRA
NCBI Protein Information	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase
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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