2,3-Diketo-5-Methylthiopentyl-1-Phosphate Enolase (mtnW) Geobacillus Thermodenitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	2,3-diketo-5-methylthiopentyl-1-phosphate enolase (mtnW), Recombinant Protein
Full Product Name	Recombinant Geobacillus thermodenitrificans 2,3-diketo-5-methylthiopentyl-1-phosphate enolase (mtnW)
Product Gene Name	mtnW recombinant protein
Sequence	MSTVIATYLL HDEKDIRKKA EGIALGLTVG TWTDLPALEQ EQLRKHKGEV VGIEELGESG PANEYFDKRL KRAIVKIAYP TVNFSADLPA LLATTFGKLS LDGEVRLLDL ELSDEWKRHF PGPRFGIAGI REKVGVYDRP LLMSIFKGII GRDLAYLTSE LKKQALGGVD LVKDDEILFD NELLPFEKRI TAGKAALQEV YEQTGKRTLY AVNLTGKTFE LKEKAKRAAE LGADVLLFNV FTYGLDVLQG LREDENINVP IMAHPAFSGA MTPSEFYGVA PSLLLGKFLR LAGADFVLFP SPYGSVALER EQALGIARAL TDEQEPFARA FPVPSAGIHP GLVPLLVRDF GLDCIVNAGG GIHGHPDGAI GGGQAFRAAI DAALAGRLLR EAVKENEALQ KAIDRWGAIE VEA
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	44,931 Da
Sequence Positions	1-413, Full length
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 A4ILL5
Species	Geobacillus thermodenitrificans (strain NG80-2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mtnW recombinant protein	MBS1257073 is a recombinant protein targeting mtnW. Also known as Recombinant Geobacillus thermodenitrificans 2,3-diketo-5-methylthiopentyl-1-phosphate enolase (mtnW). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mtnW 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 mtnW. It may not necessarily be applicable to this product.

NCBI GI #	500216893
NCBI Accession #	WP_011887036.1
UniProt Primary Accession #	A4ILL5
GenBank Nucleotide #	WP_011887036.1

NCBI Official Full Name	2,3-diketo-5-methylthiopentyl-1-phosphate enolase
UniProt Protein Name	2,3-diketo-5-methylthiopentyl-1-phosphate enolase
UniProt Synonym Protein Names	RuBisCO-like protein
Protein Family	2,3-diketo-5-methylthiopentyl-1-phosphate enolase
UniProt Gene Name	mtnW
UniProt Synonym Gene Names	DK-MTP-1-P enolase; RLP
UniProt Comments for mtnW	Catalyzes the enolization of 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P) into 2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate (HK-MTPenyl-1-P).
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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