2-Keto-4-Pentenoate Hydratase (mhpD) Burkholderia Xenovorans Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-keto-4-pentenoate hydratase (mhpD), Recombinant Protein
Full Product Name	Recombinant Burkholderia xenovorans 2-keto-4-pentenoate hydratase (mhpD)
Product Gene Name	mhpD recombinant protein
Product Synonym Gene Name	mhpD
Sequence	MTPQQREEAA QSLYQAMQSG KPIAPLRDTF PDMNVDDAYA IQSINTQRRI SLGRRVVGRK IGLTSVVVQQ QLGVDEPDFG ALFDDMSFGD AETIPLSILH QPKVEAEIGF VLGRDLDTEQ PTHQEVLQAV DYVVPALEIV GSRIADWNIK FVDTVADNAS SGVYVLGSTP ISPRGLDLSL VGMCLSRRGE PVSTGAGAAC LGTPLNAVVW LARTMSRLGK PLRAGELILS GALGPMVAVK PGDVFECHIN GVGSVRTEFE SNQMNGVAA
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	28,759 Da
Sequence Positions	1-269, 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 Q13VU0
Species	Burkholderia xenovorans (strain LB400)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mhpD recombinant protein	MBS1386221 is a recombinant protein targeting mhpD. Also known as Recombinant Burkholderia xenovorans 2-keto-4-pentenoate hydratase (mhpD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mhpD 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 mhpD. It may not necessarily be applicable to this product.

NCBI GI #	499808602
NCBI Accession #	WP_011489336.1
UniProt Primary Accession #	Q13VU0
GenBank Nucleotide #	WP_011489336.1
NCBI Official Full Name	MULTISPECIES: 2-keto-4-pentenoate hydratase 3

UniProt Protein Name	2-keto-4-pentenoate hydratase
UniProt Synonym Protein Names	2-hydroxypentadienoic acid hydratase
Protein Family	2-keto-4-pentenoate hydratase
UniProt Gene Name	mhpD
UniProt Comments for mhpD	Catalyzes the conversion of 2-hydroxypentadienoic acid (enolic form of 2-oxopent-4-enoate) to 4-hydroxy-2-ketopentanoic acid.
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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