3-Isopropylmalate Dehydrogenase (leuB) Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydrogenase (leuB), Recombinant Protein
Full Product Name	Recombinant 3-isopropylmalate dehydrogenase (leuB)
Product Gene Name	leuB recombinant protein
Product Synonym Names	3-isopropylmalate dehydrogenase; EC=1.1.1.85; 3-IPM-DH; Beta-IPM dehydrogenase; IMDH
Sequence	MKKQYRIAVL PGDGIGPEVM KEAYKILKIL QNYFSLHIEI KEFNIGGIAL DKEGVALPKD TLLGCENSDA ILFGSVGGKK WNNLPIEKRP ERASLLPLRK HFNLFYNLRP AKLYSELRFL SPLRSKTXIK NGFDILCIRE LTGGIYFGEP RGRLKKNNIE YAFDTEVYYD YEINRIAHVA FQLARTRKNK VCSIDKANVL NSSLLWREIV TKVSKNYPDV HLSHLYIDNA TMQIIQNPNQ FDILLCSNLF GDILSDECAI ITGSIGMLPS ASLNEKNFGL YEPAGGSAPD IAGKNIANPI AQILSLSMLV RYGMNLKKIA NKIDQSVISV LKKGYRTFDI SDDNNXFLKT NEMGDVIADA LINGE
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	40,966 Da
Sequence Positions	1-365aa; 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 Q9EVG3
Species	Buchnera aphidicola subsp. Macrosiphoniella ludovicianae
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuB recombinant protein	MBS1307203 is a recombinant protein targeting leuB. Also known as Recombinant 3-isopropylmalate dehydrogenase (leuB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of leuB 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 leuB. It may not necessarily be applicable to this product.

NCBI GI #	24211943
NCBI Accession #	Q9EVG3.1
UniProt Primary Accession #	Q9EVG3
NCBI Official Full Name	3-isopropylmalate dehydrogenase

UniProt Protein Name	3-isopropylmalate dehydrogenase
UniProt Synonym Protein Names	3-IPM-DH; Beta-IPM dehydrogenase
Protein Family	3-isopropylmalate/3-methylmalate dehydrogenase
UniProt Gene Name	leuB
UniProt Synonym Gene Names	IMDH
UniProt Entry Name	LEU3_BUCML
UniProt Comments for leuB	Catalyzes the oxidation of 3-carboxy-2-hydroxy-4-methylpentanoate (3-isopropylmalate) to 3-carboxy-4-methyl-2-oxopentanoate. The product decarboxylates to 4-methyl-2 oxopentanoate.
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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