3-Isopropylmalate Dehydrogenase (leuB) Vibrio Fischeri Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydrogenase (leuB), Recombinant Protein
Full Product Name	Recombinant Vibrio fischeri 3-isopropylmalate dehydrogenase (leuB)
Product Gene Name	leuB recombinant protein
Product Synonym Gene Name	leuB
Sequence	MTNKTYKIAV LPGDGIGPEV MEQAHKVLDA IEKKHAISFS REQHDVGGIA IDNHGCPLPE STVKGCEESD AVLFGSVGGP KWEHLPPNDQ PERGALLPLR KHFQLFCNLR PAQIHKGLEN FSPLRADISE RGFDIVVVRE LTGGIYFGQP KGREGEGPQE KAYDTEIYHR YEIERIAKIA FESARLRNKN VYSIDKANVL QSSILWREVV EEVAKGYPDV TLNHMYIDNA TMQLIKDPSQ FDVMLCSNIF GDIISDECAM ITGSMGMLPS ASLNESNFGL YEPAGGSAPD IAGKNIANPV AQILSAALML RYSLGEEEAA QSIEAAVSKA LSAGELTADL AGDKPALTTS AMGDKIAEYI LNS
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	39,490 Da
Sequence Positions	1-363, 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 Q5E857
Species	Vibrio fischeri (strain 700601 / ES114)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuB recombinant protein	MBS1482166 is a recombinant protein targeting leuB. Also known as Recombinant Vibrio fischeri 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 #	491559753
NCBI GeneID	3277254
NCBI Accession #	WP_005417339.1
UniProt Primary Accession #	Q5E857

UniProt Related Accession #	Q5E857
GenBank Nucleotide #	WP_005417339.1
NCBI Official Full Name	3-isopropylmalate dehydrogenase
NCBI Official Symbol	leuB
UniProt Protein Name	3-isopropylmalate dehydrogenase
UniProt Synonym Protein Names	3-IPM-DH
Protein Family	3-isopropylmalate/3-methylmalate dehydrogenase
UniProt Gene Name	leuB
UniProt Synonym Gene Names	IMDH
NCBI Protein Information	3-isopropylmalate dehydrogenase
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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