3-Isopropylmalate Dehydrogenase (leuB) Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydrogenase (leuB), Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Cinara cedri 3-isopropylmalate dehydrogenase (leuB)
Product Gene Name	leuB recombinant protein
Product Synonym Gene Name	leuB
Sequence	MKKKKEYRIA VLPGDGIGPE VMQEAYKILN VINKKFDFNI YTNEYDIGGI AIDKYGAPLP KKTLNGCIES HAILFGSIGG KEWTHLPADE QPERGGLLPL RKFFNLFVNL RPIKLHFSLK KLSPLKKEII QDGFDILCVR ELIGGIYFGL PKGKNTFDKK NISAFDTEIY STKEIEKIAD IAFQLSLKRK KKVFSIDKAN VLESSMLWRE VVIQVSKRYP NVELIHLYID NAAMQLIKNP NQFDVILCSN LFGDILSDEC AALTGSLGML PSASLNESFF GLFEPAGGSA PDLKGKNIAN PIAQILSLAL LFKYSLQLEK ISHLIELSVL KTLEKGYRTL DISNGKKYIT TDQMGNYIAK TLSELIN
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	41,114 Da
Sequence Positions	1-367, 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 Q5WPZ9
Species	Buchnera aphidicola subsp. Cinara cedri (strain Cc)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuB recombinant protein	MBS1431443 is a recombinant protein targeting leuB. Also known as Recombinant Buchnera aphidicola subsp. Cinara cedri 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 #	501712793
NCBI Accession #	WP_012622903.1
UniProt Primary Accession #	Q5WPZ9
GenBank Nucleotide #	WP_012622903.1

NCBI Official Full Name	3-isopropylmalate dehydrogenase
UniProt Protein Name	3-isopropylmalate dehydrogenase
UniProt Synonym Protein Names	3-IPM-DH; Beta-IPM dehydrogenase; IMDH
Protein Family	3-isopropylmalate/3-methylmalate dehydrogenase
UniProt Gene Name	leuB
UniProt Synonym Gene Names	IMDH
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 ().
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