3-Isopropylmalate Dehydratase Small Subunit (leuD) Pyrococcus Kodakaraensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydratase small subunit (leuD), Recombinant Protein
Full Product Name	Recombinant Pyrococcus kodakaraensis 3-isopropylmalate dehydratase small subunit (leuD)
Product Gene Name	leuD recombinant protein
Product Synonym Gene Name	leuD; TK0281
Product Synonym Names	3-isopropylmalate dehydratase small subunit; EC=4.2.1.33; Alpha-IPM isomerase; IPMI; Isopropylmalate isomerase
Sequence	MITRGRVWRF GDNVSTDTIT PGRYNLTKDP EELARIAFIE ARPEFSREVK PGDVVVGGRN FGIGSSRESA ALSLKAAGVA GVIAESFGRI FYRNAVNLGL PLLVGDTSGL RDGEVVEVNW RTGEVRTENG VFHFKPLDGF LLRIVEEGGI LSFIARRGDL CIE
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	17,825 Da
Sequence Positions	1-163aa; 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 Q5JFV7
Species	Pyrococcus kodakaraensis (strain BAA-918 / JCM 12380 / KOD1) (Thermococcus kodakaraensis (strain KOD1))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuD recombinant protein	MBS1351627 is a recombinant protein targeting leuD. Also known as Recombinant Pyrococcus kodakaraensis 3-isopropylmalate dehydratase small subunit (leuD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of leuD 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 leuD. It may not necessarily be applicable to this product.

NCBI GI #	57640216
NCBI GeneID	3235943
NCBI Accession #	YP_182694.1
UniProt Primary Accession #	Q5JFV7

UniProt Related Accession #	Q5JFV7
GenBank Nucleotide #	NC_006624.1
NCBI Official Full Name	3-isopropylmalate dehydratase small subunit
NCBI Official Symbol	leuD
UniProt Protein Name	3-isopropylmalate dehydratase small subunit
UniProt Synonym Protein Names	Alpha-IPM isomerase; Isopropylmalate isomerase
Protein Family	3-isopropylmalate dehydratase
UniProt Gene Name	leuD
UniProt Synonym Gene Names	IPMI
UniProt Entry Name	LEUD_THEKO
NCBI Protein Information	3-isopropylmalate dehydratase small subunit
UniProt Comments for leuD	Catalyzes the isomerization between 2-isopropylmalate and 3-isopropylmalate, via the formation of 2-isopropylmaleate.
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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