3-Isopropylmalate Dehydratase Large Subunit (leuC) Streptococcus Thermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydratase large subunit (leuC), Recombinant Protein
Full Product Name	Recombinant Streptococcus thermophilus 3-isopropylmalate dehydratase large subunit (leuC)
Product Gene Name	leuC recombinant protein
Product Synonym Gene Name	leuC
Sequence	MSGKSIFDKL WDRHVITGDE GQPQLMYVDQ HYIHEVTSPQ AFQGLRDAGR KVRRPDLTFG TFDHNVPTVN IFDIRDAISK AQIDKLAENV IEFGIDNASH GSDKQGIVHM VGPETGRTQP GKFIVCGDSH TATHGAFGTI AFGIGTSEVE HVFATQTLWQ VKPKKMLVEF TGNPQKGIYS KDYILALIAK YGVACGVGYV VEYRGEAIDR LTMEERMTIC NMSIEFGSKM GIMNPDQTTY DYMRGRECVP EDFDAAVADW KTLVSDDDAE YDKVIRMDVS ELAPMVTWGT NPSMGVDFDT PFPEVRDMND ERAYHYMGLR PGQKAEDINL GYIFIGSCTN ARLSDLQLAA RIVKGKKISP NLTAIVVPGS RPVKRAAEKI GLDKIFKDAG FEWREPGCSM CLGMNPDKVP DGVHCASTSN RNFEDRQGFG AKTHLCSPAM AAAAAISGHF VDVRRMPEVQ
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	50,911 Da
Sequence Positions	1-460, 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 Q5M406
Species	Streptococcus thermophilus (strain BAA-250 / LMG 18311)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuC recombinant protein	MBS1385991 is a recombinant protein targeting leuC. Also known as Recombinant Streptococcus thermophilus 3-isopropylmalate dehydratase large subunit (leuC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of leuC 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 leuC. It may not necessarily be applicable to this product.

NCBI GI #	754219050
NCBI Accession #	WP_041828253.1
UniProt Primary Accession #	Q5M406

GenBank Nucleotide #	WP_041828253.1
NCBI Official Full Name	3-isopropylmalate dehydratase large subunit
UniProt Protein Name	3-isopropylmalate dehydratase large subunit
UniProt Synonym Protein Names	Alpha-IPM isomerase
Protein Family	3-isopropylmalate dehydratase
UniProt Gene Name	leuC
UniProt Synonym Gene Names	IPMI
UniProt Comments for leuC	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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