3-Isopropylmalate Dehydratase Large Subunit (leuC) Haloferax Volcanii Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydratase large subunit (leuC), Recombinant Protein
Full Product Name	Recombinant Haloferax volcanii 3-isopropylmalate dehydratase large subunit (leuC)
Product Gene Name	leuC recombinant protein
Product Synonym Gene Name	leuC; HVO_1504
Product Synonym Names	3-isopropylmalate dehydratase large subunit; EC=4.2.1.33; Alpha-IPM isomerase; IPMI; Isopropylmalate isomerase
Sequence	MSEGTLYDKV WEEHTVSELP TGQTQLFCGL HLIHEVTSPQ AFGMLQERDL EVAYPNRTHA TVDHIVPTSD QSRPFRDDAA EEMMAELEQN VREAGINFSD PTSGEQGIVH VIGPEKGLTQ PGMTIVCGDS HTSTHGAFGA LAFGIGTSQI RDVLATQTVA MEKKKVRKIE VTGELGPGVE AKDVILEIIR RLGTEGGVGY VYEYAGEAIE DLDMEGRMSI CNMSIEGGAR AGYVNPDETT YEWLKETEYF QENPERFDEL KPYWESIRSD EDAEYDDVVT IDGSELEPVV TWGTTPGQGV GITQPIPAPE DLPEEKQETA RMAQEHMGVT PGETMEGYEI DVAFLGSCTN ARLPDLRRAA GVVKGRQVAD SVRAMVVPGS QRVKAAAEAE GLDEVFKEAG FEWREAGCSM CLGMNEDQLE GDEASASSSN RNFIGRQGSK DGRTVLMNPR MVAAAAVTGE VTDVRELKEV TTV
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	51,620 Da
Sequence Positions	1-473aa; 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 Q7ZAG7
Species	Haloferax volcanii (strain 29605 / DSM 3757 / JCM 8879 / NBRC 14742 / NCIMB 2012 / VKM B-1768 / DS2) (Halobacterium volcanii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuC recombinant protein	MBS1304462 is a recombinant protein targeting leuC. Also known as Recombinant Haloferax volcanii 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 #	292655656

NCBI GeneID	8926493
NCBI Accession #	YP_003535553.1
UniProt Primary Accession #	Q7ZAG7
UniProt Secondary Accession #	D4GYF0
UniProt Related Accession #	Q7ZAG7
GenBank Nucleotide #	NC_013967.1
NCBI Official Full Name	3-isopropylmalate dehydratase large subunit
NCBI Official Symbol	leuC
UniProt Protein Name	3-isopropylmalate dehydratase large subunit
UniProt Synonym Protein Names	Alpha-IPM isomerase; Isopropylmalate isomerase
Protein Family	3-isopropylmalate dehydratase
UniProt Gene Name	leuC
UniProt Synonym Gene Names	HVO_1504; IPMI
UniProt Entry Name	LEUC_HALVD
NCBI Protein Information	3-isopropylmalate dehydratase large subunit
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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