3-Isopropylmalate Dehydratase Large Subunit 1 (leuC1) Deinococcus Radiodurans Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-isopropylmalate dehydratase large subunit 1 (leuC1), Recombinant Protein
Full Product Name	Recombinant Deinococcus radiodurans 3-isopropylmalate dehydratase large subunit 1 (leuC1)
Product Gene Name	leuC1 recombinant protein
Product Synonym Gene Name	leuC1; DR_1610
Product Synonym Names	3-isopropylmalate dehydratase large subunit 1; EC=4.2.1.33; Alpha-IPM isomerase 1; IPMI 1; Isopropylmalate isomerase 1
Sequence	MTTGAPPFSG SSPQTTRPQT VAEKILSQRG SAAVYAGDLA VVEVDQVMVV DSIAQSFIER MERDLGAVPK YPERVSIVVD HVAPASTVSV AQAQKEAREY AAKTGVRLFD VGRGICHQVL MEEKLAQPGW IVLGSDSHST TYGAVAAFGS GMGATDIALA AASGKTWLRV PESVKVTLTG DLRPGVTAKD VALEMIRVLG ADGATYQSVE IHAGDRFTRG ERMTLANLCV EAGAKAGLVV PGGEILTDYG YDVPAWVYPD EGAAYAREVE IDLSALHPRM SAPSEVDNVH DVAELRGLKV DQVFIGTCTN GRIEDLHAAA EVLRGRRVDP TTRLLVIPAS SQVMEEALQD GTLLTLQRAG AVLGTPGCGP CMGRHQGVLA PGEVCVSTSN RNFIGRMGDK DAHIYLASPA VAAATAVMGR VALPEDVAQV AASA
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	45,540 Da
Sequence Positions	1-434aa; 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 Q9RTY9
Species	Deinococcus radiodurans (strain 13939 / DSM 20539 / JCM 16871 / LMG 4051 / NBRC 15346 / NCIMB 9279 / R1 / VKM B-1422)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for leuC1 recombinant protein	MBS1423965 is a recombinant protein targeting leuC1. Also known as Recombinant Deinococcus radiodurans 3-isopropylmalate dehydratase large subunit 1 (leuC1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of leuC1 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 leuC1. It may not necessarily be applicable to this product.

NCBI GI #	15806617

NCBI GeneID	1797365
NCBI Accession #	NP_295333.1
UniProt Primary Accession #	Q9RTY9
UniProt Related Accession #	Q9RTY9
GenBank Nucleotide #	NC_001263.1
NCBI Official Full Name	3-isopropylmalate dehydratase large subunit
NCBI Official Symbol	DR_1610
UniProt Protein Name	3-isopropylmalate dehydratase large subunit 1
UniProt Synonym Protein Names	Alpha-IPM isomerase 1; Isopropylmalate isomerase 1
Protein Family	3-isopropylmalate dehydratase
UniProt Gene Name	leuC1
UniProt Synonym Gene Names	DR_1610; IPMI 1
UniProt Entry Name	LEUC1_DEIRA
NCBI Protein Information	3-isopropylmalate dehydratase large subunit
UniProt Comments for leuC1	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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