Ketol-Acid Reductoisomerase (ilvC) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ketol-acid reductoisomerase (ilvC), Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Ketol-acid reductoisomerase (ilvC)
Product Gene Name	ilvC recombinant protein
Sequence	MNYFNTLNFT QKINQINKCR FMKKEEFNKK NDILKNKNIV IVGCGAQGLN QGLNMRDAGL NISYALKKNS IANKNQSWIN AIENNFKVDD YDALIPDADL VINLTPDKQH HSVIKKLQKL MKKNAVLGYS HGFNIVEFGE KIRKDITVIM VAPKCPGTEV REEYKRGFGV PTLIAVHHEN DINKIGLEVA KAWAFSTGGH RAGVLESSFI AEVKSDLMGE QTILCGMLQT ASLLCYEKLI TEKCNPAYSA KLIQNGWETI TESLKHGGIT LMMDRLSNSS KIRAYKLSKE IKKILSPLFQ KHMDDIISGE FSNEMMKDWE NQDLKLLNWR YKTKNTSFET APVYNEKIPE QEYYDHGILM IAILKSGIEL SFEKMIETGI KEESAYYESL HELPLIANTI ARKKLYEMNK VISDTAEYGS YLFSESAYPI LKEFISTLNK SDLGCALSHQ SVNNIELYRI NQKIQNHPIE IIGCTLRNYM KKMKAITVAK
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	55,828 Da
Sequence Positions	1-490, 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 B8D8B4
Species	Buchnera aphidicola subsp. Acyrthosiphon pisum (strain Tuc7)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ilvC recombinant protein	MBS1228101 is a recombinant protein targeting ilvC. Also known as Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Ketol-acid reductoisomerase (ilvC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ilvC 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 ilvC. It may not necessarily be applicable to this product.

NCBI GI #	497560363
NCBI GeneID	1109935
NCBI Accession #	WP_009874547.1
UniProt Primary Accession #	B8D8B4
UniProt Related Accession #	P57655

GenBank Nucleotide #	WP_009874547.1
NCBI Official Full Name	ketol-acid reductoisomerase
NCBI Official Symbol	ilvC
UniProt Protein Name	Ketol-acid reductoisomerase (NADP(+))
UniProt Synonym Protein Names	Acetohydroxy-acid isomeroreductase
Protein Family	Ketol-acid reductoisomerase
UniProt Gene Name	ilvC
UniProt Synonym Gene Names	KARI; AHIR
NCBI Protein Information	ketol-acid reductoisomerase
UniProt Comments for ilvC	Involved in the biosynthesis of branched-chain amino acids (BCAA). Catalyzes an alkyl-migration followed by a ketol-acid reduction of (S)-2-acetolactate (S2AL) to yield (R)-2,3-dihydroxy-isovalerate. In the isomerase reaction, S2AL is rearranged via a Mg-dependent methyl migration to produce 3-hydroxy-3-methyl-2-ketobutyrate (HMKB). In the reductase reaction, this 2-ketoacid undergoes a metal-dependent reduction by NADPH to yield (R)-2,3-dihydroxy-isovalerate.
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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