Ketol-Acid Reductoisomerase (ilvC) Flavobacterium Johnsoniae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ketol-acid reductoisomerase (ilvC), Recombinant Protein
Full Product Name	Recombinant Flavobacterium johnsoniae Ketol-acid reductoisomerase (ilvC)
Product Gene Name	ilvC recombinant protein
Sequence	MANYFNTLPL RLQLEQLGVC EFMEQSEFAD GISALAGKKV VIVGCGAQGL NQGLNMRDSG LDISYALRAD AIAEKRASYK NATENGFKVG TYEELIPTAD LVCNLTPDKQ HTSVVNAIMP LMKQGSTLAY SHGFNIVEEG MQIRKDITVI MCAPKCPGSE VREEYKRGFG VPTLIAVHPE NDPNGFGLDQ AKAYAVATGG HKAGVLRSSF VAEVKSDLMG EQTILCGLLQ TGSILCFDKM VEKGIDAAYA SKLIQYGWET ITEALKHGGI TNMMDRLNNP SKIEAYELAE ELKDIMRPLF QKHQDDIISG EFSRTMMIDW ANDDVNLLKW RAATGETNFE KTAPQEAPIS EQEYFDNGVL MIAMVKAGVE LAFETMTEAG IIEESAYYES LHELPLIANT IARKKLFEMN RVISDTAEYG CYLFDHACKP LLTEFMKKVE TNIIGKPFST SNGVDNTVLI AVNKEIRQHP IEEVGAWLRE SMTAMKKIG
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	54,050 Da
Sequence Positions	1-489, 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 A5FFY3
Species	Flavobacterium johnsoniae (strain 17061 / DSM 2064 / UW101) (Cytophaga johnsonae)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ilvC recombinant protein	MBS1238896 is a recombinant protein targeting ilvC. Also known as Recombinant Flavobacterium johnsoniae 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 #	500934774
NCBI Accession #	WP_012024919.1
UniProt Primary Accession #	A5FFY3
GenBank Nucleotide #	WP_012024919.1
NCBI Official Full Name	ketol-acid reductoisomerase

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
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.
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