Methylmalonate Semialdehyde Dehydrogenase [Acylating] 2 (iolA2) Oceanobacillus Iheyensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Methylmalonate semialdehyde dehydrogenase [acylating] 2 (iolA2), Recombinant Protein
Full Product Name	Recombinant Oceanobacillus iheyensis Methylmalonate semialdehyde dehydrogenase [acylating] 2 (iolA2)
Product Gene Name	iolA2 recombinant protein
Product Synonym Gene Name	iolA2
Sequence	MTQTTVKNVK NYIGGEWIES RTEKTEDVFN PATGEVIAQV PISTTEDVHH AIEVANEAFK TWKEVPVPKR ARILFKYQQL LVEHWEELAK LITLENGKNY AEAYGEVQRG IENVEFATGA PSLMMGEQLA SIATELESGV YRYPIGVIGG ITPFNFPMMV PCWMFPMAIA TGNTFVMKPS ERTPLLANRL AELLEEAGLP NGVFNIVHGA HDVVNGLLDH KKVAAISFVG SQPVAEYVYK RGTQNLKRVQ ALAGAKNHSI VLSDANLENA TTQILNAAFG SAGERCMAAS VVAVEEDVAD EFVTLLTQKA NEIKIGNGLD EGVFLGPVIR DQHKERTLQY IESGEEEGAN LVRDGRTDEA AKQEGYFVGP TIFDHVTSEM KIWQDEIFAP VLSIARVNNL EEGVDLANES RFANGACIFT RDGGSVRRFR ETIDAGMLGV NIGVPAPMAF LPFSGWKDSF YGDLHANGKD GLQFYTRKKV LTTKWV
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	53,503 Da
Sequence Positions	1-486, Full length
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 Q8EMV4
Species	Oceanobacillus iheyensis (strain DSM 14371 / JCM 11309 / KCTC 3954 / HTE831)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for iolA2 recombinant protein	MBS1408396 is a recombinant protein targeting iolA2. Also known as Recombinant Oceanobacillus iheyensis Methylmalonate semialdehyde dehydrogenase [acylating] 2 (iolA2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of iolA2 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 iolA2. It may not necessarily be applicable to this product.

NCBI GI #	499379552
NCBI Accession #	WP_011067130.1

UniProt Primary Accession #	Q8EMV4
GenBank Nucleotide #	WP_011067130.1
NCBI Official Full Name	methylmalonate-semialdehyde dehydrogenase (CoA acylating)
UniProt Protein Name	Malonate-semialdehyde dehydrogenase 2
UniProt Synonym Protein Names	Methylmalonate-semialdehyde dehydrogenase 2
Protein Family	Methylmalonate semialdehyde dehydrogenase
UniProt Gene Name	iolA2
UniProt Synonym Gene Names	MSA dehydrogenase 2; MMSA dehydrogenase 2; MSDH 2
UniProt Comments for iolA2	Catalyzes the oxidation of malonate semialdehyde (MSA) and methylmalonate semialdehyde (MMSA) into acetyl-CoA and propanoyl-CoA, respectively.
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