Methylmalonate Semialdehyde Dehydrogenase [Acylating] (iolA) Listeria Monocytogenes Serotype 4b Recombinant Protein

PRODUCT OVERVIEW

Product Name	Methylmalonate semialdehyde dehydrogenase [acylating] (iolA), Recombinant Protein
Full Product Name	Recombinant Listeria monocytogenes serotype 4b Methylmalonate semialdehyde dehydrogenase [acylating] (iolA)
Product Gene Name	iolA recombinant protein
Product Synonym Gene Name	iolA
Sequence	MADVRKLKNY INGEWVESRA DKYEDVINPA TGEVLCQVPI STRAELDQAA VIAEQAFEKW SQVAVPRRAR VLFSFQQLLI QHKEKLARLI TLENGKNLSE ARGEVQRGIE NVEFAAGAPT LMMGDSLASI ATDVEAANYR YPVGVVGGIA PFNFPMMVPC WMFPMAIALG NSFILKPSER TPLLMEKLVE LFSEAGLPKG VFNVVYGAHD VVNGILENEI IKAVSFVGSK PVGEYVYKTG SANLKRVQAL TGAKNHTIVL NDADLEDTVT NVISAAFGSA GERCMACAVV TVEEGIADEF LAALRTAAQN VKIGNGLDDG VFLGPVIREE NQKRTIAYIE KGLEEGAKLT VDGRETGLSE GHFVGPTILE DVTTDMTIWK DEIFAPVLSV IRVKNLQEAV RVANQSEFAN GACIFTNNAK AIRYFREKID AGMLGVNLGV PAPMAFFPFS GWKSSFYGTL HANGKDSVDF YTHKKVVTAR YSLKGYEE
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	53,289 Da
Sequence Positions	1-488, 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 Q723T1
Species	Listeria monocytogenes serotype 4b (strain F2365)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for iolA recombinant protein	MBS1475750 is a recombinant protein targeting iolA. Also known as Recombinant Listeria monocytogenes serotype 4b Methylmalonate semialdehyde dehydrogenase [acylating] (iolA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of iolA 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 iolA. It may not necessarily be applicable to this product.

NCBI GI #	489830862
NCBI Accession #	WP_003734600.1

UniProt Primary Accession #	Q723T1
GenBank Nucleotide #	WP_003734600.1
NCBI Official Full Name	methylmalonate-semialdehyde dehydrogenase (CoA acylating)
UniProt Protein Name	Malonate-semialdehyde dehydrogenase
UniProt Synonym Protein Names	Methylmalonate-semialdehyde dehydrogenase
Protein Family	Methylmalonate semialdehyde dehydrogenase
UniProt Gene Name	iolA
UniProt Synonym Gene Names	MSA dehydrogenase; MMSA dehydrogenase; MSDH
UniProt Comments for iolA	Catalyzes the oxidation of malonate semialdehyde (MSA) and methylmalonate semialdehyde (MMSA) into acetyl-CoA and propanoyl-CoA, respectively.
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