Methylmalonate Semialdehyde Dehydrogenase [Acylating] (iolA) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Methylmalonate semialdehyde dehydrogenase [acylating] (iolA), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus Methylmalonate semialdehyde dehydrogenase [acylating] (iolA)
Product Gene Name	iolA recombinant protein
Product Synonym Gene Name	iolA
Sequence	MITTEIKRVK NHINGEWVES TGTEVEAVPN PATGKIIAYV PLSPKEDVEK AVEAAKAAFE TWSKVPVPNR SRNLYKYLQL LQENKDELAK IITLENGKTL TDATGEVQRG IEAVELATST PNLMMGQALP NIASGIDGSI WRYPIGVVAG ITPFNFPMMI PLWMFPLAIA CGNTFVLKTS ERTPLLAERL VELFYEAGFP KGVLNLVQGG KDVVNSILEN KDIQAVSFVG SEPVARYVYE TGTKHGKRVQ ALAGAKNHAI VMPDCNLEKT VQGVIGSAFA SSGERCMACS VVAVVDEIAD EFIDVLVAET KKLKVGDGFN EDNYVGPLIR ESHKERVLGY INSGVADGAT LLVDGRKINE EVGEGYFVGA TIFDGVNQEM KIWQDEIFAP VLSIVRVKDL EEGIKLTNQS KFANGAVIYT SNGKHAQTFR DNIDAGMIGV NVNVPAPMAF FAFAGNKASF FGDLSTNGTD GVQFYTRKKV VTERWF
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	52,954 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 Q81DR5
Species	Bacillus cereus (strain 14579 / DSM 31)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for iolA recombinant protein	MBS1425561 is a recombinant protein targeting iolA. Also known as Recombinant Bacillus cereus 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 #	30020422
NCBI GeneID	1204639
NCBI Accession #	NP_832053.1

UniProt Primary Accession #	Q81DR5
UniProt Related Accession #	Q81DR5
GenBank Nucleotide #	NC_004722.1
NCBI Official Full Name	methylmalonate-semialdehyde dehydrogenase (acylating)
NCBI Official Symbol	BC2290
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
NCBI Protein Information	methylmalonate-semialdehyde dehydrogenase (acylating)
UniProt Comments for iolA	Catalyzes the oxidation of malonate semialdehyde (MSA) and methylmalonate semialdehyde (MMSA) into acetyl-CoA and propanoyl-CoA, respectively.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/methylmalonate-semialdehyde-dehydrogenase-acylating-iola/1425561