Enolase-Phosphatase E1 (mtnC) Alcanivorax Borkumensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Enolase-phosphatase E1 (mtnC), Recombinant Protein
Full Product Name	Recombinant Alcanivorax borkumensis Enolase-phosphatase E1 (mtnC)
Product Gene Name	mtnC recombinant protein
Product Synonym Gene Name	mtnC
Sequence	MINAIITDIE GTTSSIAFVK EVLFPYAAKR FPDFLADHWD HPCVQEQIKA AEKESGETLG SADKAAALFL RWIEEDRKAT PLKTLQGMIW KAGYENGDYT AHMYPDTAPA LKKWHQKGIA LYVYSSGSIT AQKLFFGYSD AGDLTGLLSG YFDTTTGPKQ ETDSYRKIQQ AIDKPANTLL FLSDIEAELD AAAEAGFNTC LLDRQQAGLE SRHPVASNFN HINLAD
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	24,974 Da
Sequence Positions	1-226, 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 Q0VPK3
Species	Alcanivorax borkumensis (strain SK2 / 700651 / DSM 11573)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mtnC recombinant protein	MBS1338543 is a recombinant protein targeting mtnC. Also known as Recombinant Alcanivorax borkumensis Enolase-phosphatase E1 (mtnC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mtnC 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 mtnC. It may not necessarily be applicable to this product.

NCBI GI #	754059340
NCBI Accession #	WP_041704953.1
UniProt Primary Accession #	Q0VPK3
GenBank Nucleotide #	WP_041704953.1
NCBI Official Full Name	MULTISPECIES: acireductone synthase

UniProt Protein Name	Enolase-phosphatase E1
UniProt Synonym Protein Names	2,3-diketo-5-methylthio-1-phosphopentane phosphatase
Protein Family	Enolase-phosphatase
UniProt Gene Name	mtnC
UniProt Comments for mtnC	Bifunctional enzyme that catalyzes the enolization of 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P) into the intermediate 2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate (HK-MTPenyl-1-P), which is then dephosphorylated to form the acireductone 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-MTPene).
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