# 3-Methyl-2-Oxobutanoate Hydroxymethyltransferase (panB) Halobacterium Salinarum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 3-methyl-2-oxobutanoate hydroxymethyltransferase (panB), Recombinant Protein |
| **Full Product Name** | Recombinant Halobacterium salinarum 3-methyl-2-oxobutanoate hydroxymethyltransferase (panB) |
| **Product Gene Name** | panB recombinant protein |
| **Product Synonym Gene Name** | panB |
| **Sequence** | MPTVNSVRRA GNTDEETDPV TMLTAYDAPT ASVVDDAGVD MILVGDSVGN AKLGYDTTLP VSVDEIASAT GAVARATADA VVVADMPFLS FGADETESVR NAGRMLKEED ADAVKLESGP HTVSLTETLT SLGIPVMAHL GLTPQHVNQL GGYFRQGTDQ DSAERMLDLA RDHEAAGAFA LVLEHVPANV AADITDAIDI PTIGIGAGPD TDGQVLVISD VIGMSERSPP FSKQFGDVNR EMAAAVDDYV DAVESGSFPA AEHSHVADDV DDVY |
| **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** | 28,571 Da |
| **Sequence Positions** | 1-274, 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 Q9HPT6 |
| **Species** | Halobacterium salinarum (strain 700922 / JCM 11081 / NRC-1) (Halobacterium halobium) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for panB recombinant protein** | MBS1331299 is a recombinant protein targeting panB. Also known as Recombinant Halobacterium salinarum 3-methyl-2-oxobutanoate hydroxymethyltransferase (panB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of panB 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 panB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499205538 |
| **NCBI Accession #** | WP_010903078.1 |
| **UniProt Primary Accession #** | Q9HPT6 |
| **GenBank Nucleotide #** | WP_010903078.1 |

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| **NCBI Official Full Name** | 3-methyl-2-oxobutanoate hydroxymethyltransferase |
| **UniProt Protein Name** | 3-methyl-2-oxobutanoate hydroxymethyltransferase |
| **UniProt Synonym Protein Names** | Ketopantoate hydroxymethyltransferase |
| **UniProt Gene Name** | panB |
| **UniProt Synonym Gene Names** | KPHMT |
| **UniProt Comments for panB** | Catalyzes the reversible reaction in which hydroxymethyl group from 5,10-methylenetetrahydrofolate is transferred onto alpha-ketoisovalerate to form ketopantoate. |
| **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. |
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