# Pyruvate Dehydrogenase E1 Component Subunit Beta, Mitochondrial (PDH2) Arabidopsis Thaliana Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Pyruvate dehydrogenase E1 component subunit beta, mitochondrial (PDH2), Recombinant Protein |
| **Full Product Name** | Recombinant Arabidopsis thaliana Pyruvate dehydrogenase E1 component subunit beta, mitochondrial (PDH2) |
| **Product Gene Name** | PDH2 recombinant protein |
| **Product Synonym Gene Name** | PDH2 |
| **Sequence** | AAGAKEMTVR DALNSAIDEE MSADPKVFVM GEEVGQYQGA YKITKGLLEK YGPERVYDTP ITEAGFTGIG VGAAYAGLKP VVEFMTFNFS MQAIDHIINS AAKSNYMSAG QINVPIVFRG PNGAAAGVGA QHSQCYAAWY ASVPGLKVLA PYSAEDARGL LKAAIRDPDP VVFLENELLY GESFPISEEA LDSSFCLPIG KAKIEREGKD VTIVTFSKMV GFALKAAEKL AEEGISAEVI NLRSIRPLDR ATINASVRKT SRLVTVEEGF PQHGVCAEIC ASVVEESFSY LDAPVERIAG ADVPMPYAAN LERLALPQIE DIVRASKRAC YRSK |
| **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** | 39,176 Da |
| **Sequence Positions** | 30-363, 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 Q38799 |
| **Species** | Arabidopsis thaliana (Mouse-ear cress) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for PDH2 recombinant protein** | MBS1289063 is a recombinant protein targeting PDH2. Also known as Recombinant Arabidopsis thaliana Pyruvate dehydrogenase E1 component subunit beta, mitochondrial (PDH2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of PDH2 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 PDH2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15241286 |
| **NCBI GeneID** | 835157 |
| **NCBI Accession #** | NP_199898.1 |

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| **UniProt Primary Accession #** | Q38799 |
| **UniProt Secondary Accession #** | Q9LSM8 |
| **UniProt Related Accession #** | Q38799 |
| **GenBank Nucleotide #** | NM_124463.4 |
| **NCBI Official Full Name** | Transketolase family protein |
| **NCBI Official Symbol** | MAB1 |
| **NCBI Official Synonym Symbols** | K16E14.6; MACCI-BOU |
| **UniProt Protein Name** | Pyruvate dehydrogenase E1 component subunit beta-1, mitochondrial |
| **UniProt Synonym Protein Names** | Protein MACCI-BOU |
| **Protein Family** | Pigment-dispersing hormone |
| **UniProt Gene Name** | PDH2 |
| **UniProt Synonym Gene Names** | MAB1; PDHE1-B |
| **NCBI Protein Information** | Transketolase family protein |
| **UniProt Comments for PDH2** | The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO2. It contains multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). |
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