# Malate Dehydrogenase (mdh) Mycobacterium Paratuberculosis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Malate dehydrogenase (mdh), Recombinant Protein |
| **Full Product Name** | Recombinant Mycobacterium paratuberculosis Malate dehydrogenase (mdh) |
| **Product Gene Name** | mdh recombinant protein |
| **Sequence** | MSASPLKVAV TGAAGQIGYS LLFRLASGSL LGPDRPIELR LLEIEPALKA LEGVVMELDD CAFPLLSGVE IGADPNKIFD GANLALLVGA RPRGPGMERS DLLEANGAIF TAQGKALNEV AADDIRVGVT GNPANTNALI AMSNAPDIPR ERFSALTRLD HNRAISQLAK KTGAKVTDIK KMTIWGNHSA TQYPDIFHAE VKGKNAAEVV GDQNWIENDF IPTVAKRGAA IIDARGASSA ASAASATTDA ARDWLLGTPA GDWVSMAVIS DGSYGVPEGL ISSFPVTTKD GDWTIVQGLE IDEFSRSRID KTTAELADER NAVTQLGLI |
| **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** | 34,631 Da |
| **Sequence Positions** | 1-329, 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 P61976 |
| **Species** | Mycobacterium paratuberculosis |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for mdh recombinant protein** | MBS1256274 is a recombinant protein targeting mdh. Also known as Recombinant Mycobacterium paratuberculosis Malate dehydrogenase (mdh). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of mdh 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 mdh. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 489972340 |
| **NCBI Accession #** | WP_003875539.1 |
| **UniProt Primary Accession #** | P61976 |
| **GenBank Nucleotide #** | WP_003875539.1 |
| **NCBI Official Full Name** | malate dehydrogenase |
| **UniProt Protein Name** | Malate dehydrogenase |

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| **Protein Family** | L-2-hydroxycarboxylate dehydrogenase |
| **UniProt Gene Name** | mdh |
| **UniProt Comments for mdh** | Catalyzes the reversible oxidation of malate to oxaloacetate. |
| **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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