Malate Dehydrogenase (mdh) Streptomyces Coelicolor Recombinant Protein

PRODUCT OVERVIEW

Product Name	Malate dehydrogenase (mdh), Recombinant Protein
Full Product Name	Recombinant Streptomyces coelicolor Malate dehydrogenase (mdh)
Product Gene Name	mdh recombinant protein
Product Synonym Gene Name	mdh
Sequence	MTRTPVNVTV TGAAGQIGYA LLFRIASGQL LGADVPVKLR LLEITPALKA AEGTAMELDD CAFPLLQGIE ITDDPNVAFD GANVALLVGA RPRTKGMERG DLLEANGGIF KPQGKAINDH AADDIKVLVV GNPANTNALI AQAAAPDVPA ERFTAMTRLD HNRALTQLAK KTGSTVADIK RLTIWGNHSA TQYPDIFHAT VAGKNAAETV NDEKWLADEF IPTVAKRGAA IIEARGASSA ASAANAAIDH VYTWVNGTAE GDWTSMGIPS DGSYGVPEGI ISSFPVTTKD GSYEIVQGLD INEFSRARID ASVKELSEER EAVRGLGLI
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	34,643 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 Q9K3J3
Species	Streptomyces coelicolor (strain BAA-471 / A3(2) / M145)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mdh recombinant protein	MBS1424516 is a recombinant protein targeting mdh. Also known as Recombinant Streptomyces coelicolor 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.

NCBI GI #	21223204
NCBI GeneID	1100268
NCBI Accession #	NP_628983.1
UniProt Primary Accession #	Q9K3J3
UniProt Related Accession #	Q9K3J3

GenBank Nucleotide #	NC_003888.3
NCBI Official Full Name	malate dehydrogenase
NCBI Official Symbol	SCO4827
NCBI Official Synonym Symbols	mdh; SC2A6.12
UniProt Protein Name	Malate dehydrogenase
Protein Family	L-2-hydroxycarboxylate dehydrogenase
UniProt Gene Name	mdh
NCBI Protein Information	malate dehydrogenase
UniProt Comments for mdh	Catalyzes the reversible oxidation of malate to oxaloacetate. Exhibits remarkably higher catalytic efficiency for oxaloacetate reduction than for malate oxidation in vitro. Shows a high specificity for NAD(H), being almost inactive with NADP(H).
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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