

Malate Dehydrogenase 2 Active Protein | mMDH2 active protein

Recombinant Mouse Malate Dehydrogenase 2

CATALOG # AAA38044	HOST E Coli
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PRODUCT SYNONYMS

Malate Dehydrogenase 2; Recombinant Mouse Malate Dehydrogenase 2; Malate Dehydrogenase 2 Mouse Recombinant; M-MDH; MDH; MOR1; MDH2 Mouse; mMDH2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Sterile filtered colorless solution. Protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4) and 20% glycerol.
Sequence	MGSSHHHHHH SSGLVPRGSH MAKVAVLGAS GGIGQPLSLL LKNSPLVSRLL TLYDIAHTPG VAADLSHIET RANVKGYLGP EQLPDCLKGC DVVVIPAGVP RKPGMTRDDL FNTNATIVAT LTAACAQHCP EAMVCIIANP VNSTIPITAE VFKKHGVYNP NKIFGVTTLD IVRANTFVAE LKGLDPARVN VPVIGGHAGK TIIP LISQCT PKVDFPQDQL ATLTGRIQEA GTEVVKAKAG AGSATLSMAY AGARFVFSLV DAMNGKEGVV ECSFVQSKET ECTYFSTPLL LGKKGLEKNL GIGKITPFEE KMIAEAIPEL KASIKKGEDF VKNMK.
Sequence Length	338
Biological Activity	Specific activity is > 800 units/mg, and is defined as the amount of enzyme that cleaves 1umole of oxaloacetate and beta-NADH to Lmalate and beta-NAD per minute at pH8.0 at 37 degree C.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mMDH2 active protein	Description: MDH2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 335 amino acids (25-338a.a.) and having a molecular mass of 35.4kDa. MDH2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introductions: MDH2 catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. MDH2 is localized to the mitochondria and takes part in the malate-aspartate shuttle that functions in the metabolic coordination between cytosol and mitochondria. MDH2 is highly expressed in the adrenal system, small intestine, heart and pancreas.
Product Categories/Family for mMDH2 active protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	146345457
NCBI GeneID	17448
UniProt Accession #	P08249 ; Q0QF44 ; Q8CF79 ; Q8R1P0
Molecular Weight	35,611 Da

NCBI Official Full Name	Malate dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	malate dehydrogenase 2, NAD (mitochondrial)
NCBI Official Symbol	Mdh2
NCBI Official Synonym Symbols	MDH; Mor1; Mdh-2; Mor-1
NCBI Protein Information	malate dehydrogenase, mitochondrial
UniProt Protein Name	Malate dehydrogenase, mitochondrial
UniProt Gene Name	Mdh2
UniProt Synonym Gene Names	Mor1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-mmdh2-active-protein/malate-dehydrogenase-2/38044>