

Recombinant Mouse Mdh1 Protein, Myc/DDK-tagged

Cat. No. Mdh1-4002M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length malate dehydrogenase 1, NAD (soluble) (Mdh1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes an enzyme that catalyzes the NAD/NADH-dependent, reversible oxidation of malate to oxaloacetate in many metabolic pathways, including the citric acid cycle. Two main isozymes are known to exist in eukaryotic cells: one is found in the mitochondrial matrix and the other in the cytoplasm. This gene encodes the cytosolic isozyme, which plays a key role in the malate-aspartate shuttle that allows malate to pass through the mitochondrial membrane to be transformed into oxaloacetate for further cellular processes. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. A pseudogene has been identified on chromosomes 12.
Molecular Mass	36.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Mdh1 malate dehydrogenase 1, NAD (soluble) [Mus musculus (house mouse)]
Official Symbol	Mdh1
Synonyms	MDH1; malate dehydrogenase 1, NAD (soluble); malate dehydrogenase, cytoplasmic; malate dehydrogenase, soluble; cytosolic malate dehydrogenase; MDHA; Mor2; MDH-s; Mor-2; D17921; B230377B03Rik
Gene ID	17449
mRNA Refseq	NM_008618
Protein Refseq	NP_032644
UniProt ID	P14152

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