

Recombinant Full Length Human MDH2 Protein, C-Flag-tagged

Cat. No. MDH2-1619HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MDH2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. The protein encoded by this gene is localized to the mitochondria and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. Several transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	35.3 kDa
AA Sequence	MLSALARPVSAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDI AHTPGVAADLSH IETKAAVKGYLGPEQLPDCLKGCDVVIPAGVPRKPGMTRDDL NTNATIVATLTAAACAHCEAMICVI ANPVNSTIPITAEVFKKHGVNPNKIFGVTTLDI VRANTFVAELKGLDPARVNVPIGGHAGKTIPLIS QCTPKVDFPQDQLTALTGRIQE AGTEVVKAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKS QETECTYFSTPLLLGKKGIEKNLGIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLKT RTRPLEQKLISEEDLAANDILDYKDDDDKV

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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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Pyruvate metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	MDH2 malate dehydrogenase 2 [Homo sapiens (human)]
Official Symbol	MDH2
Synonyms	MDH; MOR1; DEE51; M-MDH; EIEE51; MGC:3559
Gene ID	4191
mRNA Refseq	NM_005918.4

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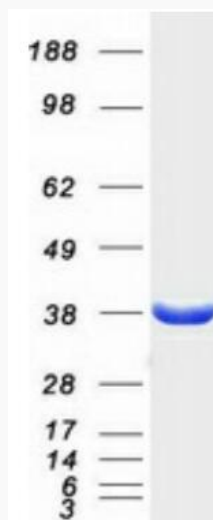
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Protein Refseq NP_005909.2

MIM 154100

UniProt ID P40926



Coomassie blue staining of purified MDH2 protein.

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