

## Product datasheet for **TP301095M**

### MDH2 (NM\_005918) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201095 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MLSALARPVSAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSH IETKAAVKGYLGPEQLPDCLKGCDVVIPAGVPRKPGMTRDDLNTNATIVATLTAACAQHCEAMICVI ANPVNSTIPITAEVFKKHGVNPNKIFGVTTLDIVRANTFVAELKGLDPAVNVPVIGGHAGKTIPLIS QCTPKVDFPQDQLTALTGRIQEAGTEVWKAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKS QETECTYFSTPLLLGKKGIEKNLGIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLK</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	35.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_005909</a>
Locus ID:	4191



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UniProt ID: [P40926](#), [A0A024R4K3](#), [B3KTM1](#)

RefSeq Size: 2268

Cytogenetics: 7q11.23

RefSeq ORF: 1014

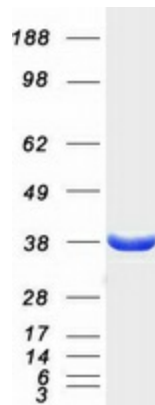
Synonyms: DEE51; EIEE51; M-MDH; MDH; MGC:3559; MOR1

**Summary:** 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. [provided by RefSeq, Sep 2013]

**Protein Families:** Druggable Genome

**Protein Pathways:** Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Pyruvate metabolism

### Product images:



Coomassie blue staining of purified MDH2 protein (Cat# [TP301095]). The protein was produced from HEK293T cells transfected with MDH2 cDNA clone (Cat# [RC201095]) using MegaTran 2.0 (Cat# [TT210002]).