

## Product datasheet for **TP301095L**

### 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, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC201095 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MLSALARPVSAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSH  
IETKAAVKGYLGPEQLPDCLKGCDVWIPAGVPRKPGMTRDDLNTNATIVATLTAACAQHCEAMICVI  
ANPVNSTIPITAEVFKKHGVYVNPKNKIFGVTTLDIVRANTFVAELKGLDPAVNVPIVGGHAGKTIPLIS  
QCTPKVDFPQDQLTALTGRIQEAGTEVWKAKAGAGSATLSMAYAGARFVSLVDAMNGKEGVVECSFVKS  
QETECTYFSTPLLLGKKGIEKNLGIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**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:** [NP\\_005909](#)

**Locus ID:** 4191



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

RefSeq Size: 2268

Cytogenetics: 7q11.23

RefSeq ORF: 1014

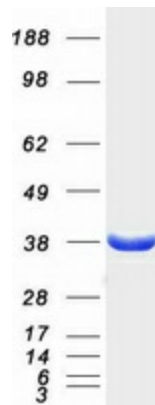
Synonyms: DEE51; EIEE51; M-MDH; MDH; MGC:3559; MOR1

**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]).