

Product datasheet for PH301095

MDH2 (NM_005918) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | MDH2 MS Standard C13 and N15-labeled recombinant protein (NP_005909) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC201095 |
| Predicted MW: | 35.5 kDa |
| Protein Sequence: | >RC201095 protein sequence Red=Cloning site Green=Tags(s) |

MLSALARPVSAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRRLTYDIAHTPGVAADLSH
IETKAAVKGYLGPEQLPDCLKGCDVVVIPAGVPRKPGMTRDDL FNTNATIVATLTAACAQHCPEAMICVI
ANPVNSTIPITAEVFKKHGVYNPNIKIFGVTTLDIVRANTFVAELKGLDPARVNPVIGGHAGKTIIPPLIS
QCTPKVDFPQDQLTAL TGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKS
QETECTYFSTPLLLGKKGIEKNLGIKGVSSFEEMISDAIPELKASIKKGEDFVKTLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | <u>NP_005909</u> |
| RefSeq Size: | 2268 |
| RefSeq ORF: | 1014 |
| Synonyms: | DEE51; EIEE51; M-MDH; MDH; MGC:3559; MOR1 |
| Locus ID: | 4191 |



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

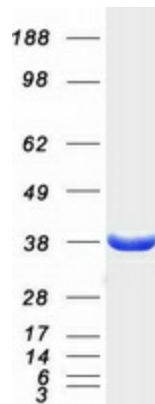
Cytogenetics: 7q11.23

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]).