

**MDH2, 25-338aa, Human, His tag, E.coli**

**Cat.NO.: TP02935**

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3th Edition

**Synonyms:** Malate dehydrogenase 2, NAD (mitochondrial), M-MDH, MDH, MOR1

**Description:** MDH2 is one of the two malate dehydrogenases. Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. MDH2 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.

**Form:** Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 10% Glycerol

**Molecular Weight:** 35.2 kDa(335aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSHIETKAAVKG  
YLGPEQLPDCLKGCDVVIPAGVPRKPGMTRDDLNTNATIVATLTAACAQHCPEAMICVIANPVNSTIPITAEVFKK  
HGVYNPNKIFGVTTLDIVRANTFVAELKGLDPARVNVPVIGGHAGKTIIPILISQCTPKVDFFPQDQLTALTGRIQEAGTE  
VVKAKAGAGSATLSMAYAGARFVFLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSSFE  
EKMISDAIPELKASIKKGEDFVKTLK

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.