

**MDH1, 1-334aa, Human, His tag, E.coli**

**Cat.NO.: TP02934**

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3th Edition

**Synonyms:**Malate dehydrogenase, cytoplasmic, MDH-s, MDHA, MOR2

**Description:**MDH1 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. MDH1 is localized to the cytoplasm 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 8.0) containing 10% Glycerol

**Molecular Weight:**37.4 kDa(342aa), confirmed by MALDI-TOF

**Sequences:**

MSEPIRVLVTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMEQLQDCALPLLKDVIATDKEDVAFK  
DLDVAILVGSMPRREGMERKDLLKANVKIFKSQGAALDKYAKKSVKIVVGNPANTNCLTASKSAPSIPKENFSCLT  
RLDHNRAKAQIALKLGVTANDVKNVWGNHSSTQYPDVNHAKVKLQGKEVGVYEALKDDSWLKGEFVTTVQQRG  
AAVIKARKLSSAMSAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGVPPDLLYSFPVVIKNTWKVFEGLPINDF  
SREKMDLTAKELTEEKESAFEFLSSALEHHHHHH

**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.