

**mdh, 1-312aa, E.coli, His tag, E.coli**

**Cat.NO.: TP02933**

3th Edition

**Synonyms:**Malate dehydrogenase, ECK3225, JW3205.

**Description:**Malate dehydrogenase (mdh) belongs to the LDH/MDH superfamily and MDH type 1 family. This enzyme catalyzes the conversion of malate into oxaloacetate (using NAD<sup>+</sup>) and vice versa (this is a reversible reaction). Malate dehydrogenase is also involved in gluconeogenesis, the synthesis of glucose from smaller molecules. Recombinant E.coli mdh protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl

**Molecular Weight:**34.9kDa (336aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMKVAVLGAAGGIGQALALLLKTQLPSGSELSLYDIAPVTPGVAVDLSHIPTA  
VKIKGFSGEDATPALEGADVVLISAGVARKPGMDRSDLFNVNAGIVKNLVQQVAKTCPKACIGIITNPVNTTVAIAAEV  
LKKAGVYDKNKLFVTTLDIIRSNTFVAELKKGKQPGEVEVPVIGGHSGVTILPLLSQVPGVVSFTEQEVA DLTKRIQNA  
GTEVVEAKAGGGSATLSMGQAAARFGLSLVRALQGEQGVVECA YVEGDGQYARFFSQPLLLGKNGVEERK SIGTL  
SAFEQNALEGMLD TLK KDIALGEEFVNK

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.