

**Bacterial Recombinant MDH**

<b>CATALOG #:</b>	6357-100	100 µg
<b>ALTERNATE NAMES:</b>	Malate dehydrogenase, ECK3225, JW3205.	
<b>SOURCE:</b>	E.Coli	
<b>PURITY:</b>	> 95% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	34.9 kDa (336 aa, 1-312 aa + NT His Tag)	
<b>FORMULATION:</b>	1 mg/ml solution in 20 mM Tris-HCl (pH 8.0) containing 1 mM DTT, 50 mM NaCl and 10% glycerol.	

**STORAGE CONDITIONS:**

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.

**DESCRIPTION:**

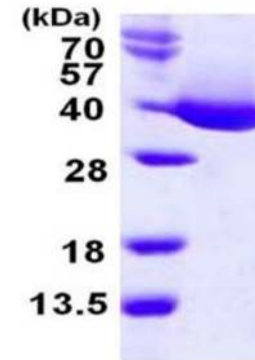
Malate dehydrogenase (MDH) belongs to the LDH/MDH superfamily and MDH type 1 family. This enzyme catalyzes the conversion of malate into oxaloacetate (using NAD<sup>+</sup>) and vice versa (reversible reaction). This reaction is part of many metabolic pathways, including the citric acid cycle. Malate dehydrogenase is also involved in gluconeogenesis, the synthesis of glucose from smaller molecules.

**AMINO ACID SEQUENCE:**

MGSSHHHHHH SSGLVPRGSH MGSHMKVAVL GAAGGIGQAL ALLLKTQLPS  
GSELSLYDIA PVTPGVAVDL SHIPTAVKIK GFSGEDATPA LEGADVVLIS AGVARKPGMD  
RSDLFNVNAG IVKNLVQQVA KTCPKACIGI ITNPVNTTVA IAAEVLKKAG VYDKNKLFV  
TTLDIIRSNT FVAELKGKQP GEVEVPVIGG HSGVTILPLL SQVPGVSFTE QEVADLTKRI  
QNAGTEVVEA KAGGGSATLS MGQAAARFGL SLVRALQGEQ GVVECAVEG  
DGQYARFFSQ PLLLGKNGVE ERKSIGTLSA FEQNALEGML DTLKKDIALG EEFVNK

**BIOLOGICAL ACTIVITY:**

Specific activity is > 450 units/mg, and is defined as the amount of enzyme that cleaves 1 µmole of oxaloacetate and beta-NADH to L-malate and beta-NAD per minute at pH 7.5 at 25°C



15% SDS-PAGE (3µg)

Bacterial Recombinant MDH

**RELATED PRODUCTS:**

- Malate assay kit (Cat. No. K637-100)
- Human recombinant MDH1 (Cat. No. 6355-100)
- Human recombinant MDH2 (Cat. No. 6356-50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**