

Malic dehydrogenase, microorganism

Cat. No.:	HY-P2809	
CAS No.:	9001-64-3	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	Malic dehydrogenase, microorganism
Storage:	Store at 4°C, do not freeze	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 100 mg/mL * "≥" means soluble, but saturation unknown.
----------	--

BIOLOGICAL ACTIVITY

Description	Malate dehydrogenase (EC 1.1.1.37) (MDH) catalyzes the mutual conversion of oxaloacetate and malate, and is associated with the oxidation/reduction of dinucleotide coenzymes ^[1] .
In Vitro	Molecular weight: approx: 35,000 (by gel filtration) Michaelis constants: 1.5×10 ⁻⁶ M (NADH, 37°C), 1.9×10 ⁻⁶ M (Oxaloacetate, 37°C) Optimu M pH: 7.5-8.0 Optimu M temperature: 60°C pH Stability: 3.0-9.0 (37°C, 30 min) Thermal stability: below 65°C (pH 7.5, 30 min) Solubility: MDH was dissolved at concentration of 20 U/mL in 100 mM, pH 7.5, Tris-HCl buffer. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Goward CR, et al. Malate dehydrogenase: a model for structure, evolution, and catalysis. Protein Sci. 1994 Oct;3(10):1883-8.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA