L-Lactate dehydrogenase, Microorganism

Cat. No.: HY-P2807

CAS No.: 9001-60-9

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

L-Lactate dehydrogenase

SOLVENT & SOLUBILITY

In Vitro	H_2O : ≥ 100 mg/mL * "≥" means soluble, but saturation unknown.

BIOLOGICAL ACTIVITY

Description	L-Lactate dehydrogenase, Microorganism (LAD) is a redox enzyme. L-Lactate dehydrogenase catalyzes the reduction of pyruvate to L-lactate by NADH in vivo with absolute enantiospecificity[1].
In Vitro	Reaction conditions Molecular weight:38 kDa (SDS-PAGE) Isoelectric point:6.2 Optimum pH:6.5 Optimum temperature:45 ℃ pH Stability:4.5-10.0 (37℃,1h) Thermal stability:<50 ℃ (pH7.4,15min) Inhibitors:Co^{2+}、Cu^{2+}、Fe^{3+}、Ni^{2+}、Zn^{2+}、NEM、SDS、Proclin Protocol The enzyme dissolved in water MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Simon ES, et al. D-lactate dehydrogenase. Substrate specificity and use as a catalyst in the synthesis of homochiral 2-hydroxy acids. Appl Biochem Biotechnol. 1989 Nov;22(2):169-79.

[2]. Holmberg N, et al. Redesign of the coenzyme specificity in L-lactate dehydrogenase from bacillus stearothermophilus using site-directed mutagenesis and media engineering. Protein Eng. 1999 Oct;12(10):851-6.

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