

Lactate Dehydrogenase, Bovine Heart

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Lactate Dehydrogenase, Bovine Heart belongs to the oxidoreductase family and catalyzes the reversible conversion between lactic acid and pyruvic acid. It is mainly used in life science research, the diagnostic detection of tissue damage, and also serves as an enzymatic marker in relevant experiments and assays.
Targets(IC50)	Others
In vitro	Lactate Dehydrogenase, Bovine Heart is released into the blood when cardiomyocytes are damaged by foot-and-mouth disease, and its elevated activity serves as a non-specific diagnostic marker for tissue injury [1]. This enzyme can undergo complex interactions with lipids on the cell membrane, and this binding process is regulated by the cellular microenvironment (pH, ionic strength, metabolite concentration), thereby affecting its intracellular localization and catalytic activity [2].

Reference

Dabrowska A, et al. Interaction of bovine heart lactate dehydrogenase with erythrocyte lipids. *Biochim Biophys Acta*. 1986 Feb 13;855(1):99-104.

Deka P, et al. Foot-and-mouth disease-associated myocarditis is age dependent in suckling calves. *Sci Rep*. 2024 May 4;14(1):10289.

Farhana A, Lappin SL. *Biochemistry, Lactate Dehydrogenase*. 2023 May 1. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2025 Jan-.

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