

LDHA Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Ldh1;lactate dehydrogenase A;Ldhm;l7R2
Protein Construction:	A DNA sequence encoding the mouse Ldha (NP_034829.1) (Met1-Phe332) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Mouse
Expression Host:	E. coli
Accession:	P06151
Molecular Weight:	36.5 kDa (predicted)

QC Testing

Biological Activity:	Measured by its ability to reduce pyruvate to lactate. The specific activity is >50,000 pmoles/min/ μ g
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, 10% Glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

LDHA (Lactate Dehydrogenase A) is a Protein Coding gene. The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. LDHA, a key enzyme regulating aerobic glycolysis, belongs to the lactate dehydrogenase family and is overexpressed in many human cancers, and correlates with poor clinical outcomes. LDHA can promote the Warburg effect to produce lactate and Adenosine Triphosphate (ATP) in aerobic conditions, which contributes to oncogenesis metastasis and

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drug resistance in various cancers. Up-regulation of lactate dehydrogenase LDHA is a frequent event in human malignancies and relate to poor postoperative outcome. Diseases associated with LDHA include Fanconi-Bickel Syndrome and Myoglobinuria.

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