

## LDHA Protein, Human, Recombinant (His)

## General Information

Synonyms:	LDH-M;Renal Carcinoma Antigen NY-REN-59;Cell Proliferation-Inducing Gene 19 Protein;LDH Muscle Subunit;LDHA;LDH-A;L-Lactate Dehydrogenase A Chain
Protein Construction:	Met1-Phe332
Species:	Human
Expression Host:	E. coli
Accession:	P00338
Molecular Weight:	37 KDa (reducing condition)
AA Sequence:	Met1-Phe332

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 500 mM NaCl, 5% Trehalose, 5% Mannitol, 0.01% Tween 80, 1 mM EDTA, 50% Glycerol, pH8.0.

## Preparation and Storage

## Stability &amp; Storage:

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:

Proteins are shipped with blue ice.

## Protein Background

L-Lactate Dehydrogenase A Chain (LDHA) is an enzyme that catalyzes the conversion of L-lactate and NAD<sup>+</sup> to pyruvate and NADH in the final step of anaerobic glycolysis. LDHA contains an N-terminal coenzyme binding region, a central catalytic site, and at least nine utilized Lys acetylation and two Tyr phosphorylation sites. LDHA belongs to the lactate dehydrogenase family, expressed predominantly in muscle tissue. LDHA mutations have been linked to exertional myoglobinuria.

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