

Recombinant Human Lactate Dehydrogenase A/LDHA Protein

Catalog No.: RP02791LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3939	P00338

Tags

N-His

Synonyms

LDHM; GSD11; PIG19; HEL-S-133P; LDHA

Product Information

Source

E. coli

Purification

> 95% by SDS-PAGE.

Endotoxin

<1EU/μg

Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris-HCl, 500mM NaCl, 5% Trehalose, 5% Mannitol, 0.01% Tween80, 1mM EDTA, 50% Glycerol, pH8.0.

Reconstitution

Background

L-Lactate Dehydrogenase A Chain (LDHA) is an enzyme that catalyzes the conversion of L-lactate and NAD⁺ 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.

Basic Information

Description

Recombinant Human Lactate Dehydrogenase A/LDHA Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Phe332) of human Lactate Dehydrogenase A/LDHA (Accession #NP_005557.1) fused with a 6×His tag at the N-terminus.

Bio-Activity

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

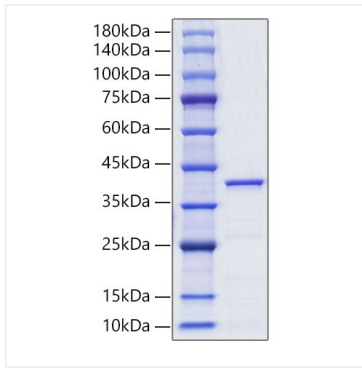
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Validation Data



Recombinant Human Lactate Dehydrogenase A/LDHA Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-45 kDa.