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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	Purification
E. coli	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
37.53 kDa	40-45 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 20mM Tris, 250mM NaCl,10% 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

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃. This product is stable at ≤ -70℃ 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.
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Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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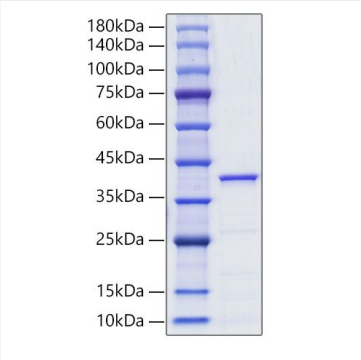
Validation Data



Recombinant Human Lactate Dehydrogenase A/LDHA Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.