

Active Recombinant Mouse Ldha Protein, His-tagged

Cat. No. Ldha-7252M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ldha Protein with a His tag.
Species	Mouse
ProteinLength	1-332
Description	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. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to hemolytic anemia and early postimplantation death in mice. Multiple transcript variants encoding different isoforms have been found for this gene. The mouse genome contains multiple pseudogenes of this gene.
Form	Liquid
Bio-activity	Specific activity is > 250 units/mg, and is defined as the Amount of enzyme that convert 1.0 μ mole of pyruvate to L-lactate and per minute at pH 7.5 at 37 centigrade.
Molecular Mass	37.5 kDa
AA Sequence	MATLKDQLIVNLLKEEQAPQNKITVVGVGAVGMACAISILMKDLADELALVDVMEDKL KGEMMDLQHGSFLFKTPKIVSSKDYCVTANSKLVIIITAGARQQEGESRLNLVQRNVN IFKFIIPNIVKYSPHCKLLIVSNPVDILTIVAWKISGFPKNRVIGSGCNLDSARFRYLMG ERLGVHALSCHGWVLGEHGDSSVPVWSGVNVAGVSLKSLNPELGTADADKEQWKE

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	VHKQVVDSAYEVIKLGKGYTSSAIGLSVADLAESIMKNLRRVHPISTMIKGLYGINEDVF LSVPCILGQNGISDVVKVTLTPEEEEARLKKSADTLWGIQKELQFLEHHHHHH
Endotoxin	< 1.0 EU/μg of protein (determined by LAL method)
Purity	> 95 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.

GENE INFORMATION

Gene Name	Ldha lactate dehydrogenase A [Mus musculus (house mouse)]
Official Symbol	Ldha
Synonyms	Ldha; lactate dehydrogenase A; I7; LDH; Ldh-; Ldh1; Ldhm; I7R2; L-lactate dehydrogenase A chain; LDH muscle subunit; LDH-M; M-LDH; lactate dehydrogenase 1, A chain; lactate dehydrogenase A4; EC 1.1.1.27
Gene ID	16828
mRNA Refseq	NM_001136069
Protein Refseq	NP_001129541

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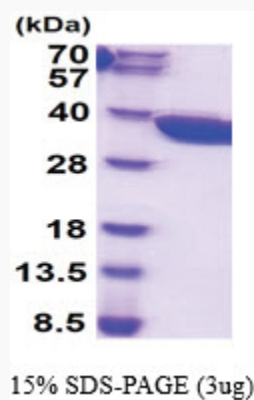
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UniProt ID

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SDS-PAGE

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