

Active Recombinant Mouse Ldha Protein, His-tagged

Cat. No. Ldha-61M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Ldha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	Ldha, also known as L-lactate dehydrogenase A chain isoform 1, is a member of the LDH/MDH superfamily and LDH family. It catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. This protein is found predominantly in muscle tissue. It has long been known that many human cancers have higher LDHA levels compared to normal tissues. It plays an important role in the development, invasion and metastasis of malignancies.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	Specific activity is >250 units/mg, and is defined as the Amount of enzyme that convert 1.0 umole of pyruvate to L-lactate and per minute at pH 7.5 at 37 centigrade.
Molecular Mass	37.5kDa (340aa)28-40KDa (SDS–PAGE under reducing conditions.)
AA Sequence	MATLKDQLIV NLLKEEQAPQ NKITVVGVA VGMACAISIL MKDLADELAL VDVMEDKLKG EMDLQHGSL FLKTPKIVSS KDYCVTANSKLVIITAGARQ QEGESRLNLV QRNVNIFKFI IPNIVKYSPH CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLDSARF RYLMGERLGVHALSCHGWVL GEHGDSSVPV

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WSGVNVAGVS LKSLNPELGT DADKEQWKEV HKQVVD SAYE VIKLKGYTSW
AIGLSVADLA ESIMKNLRRVHPISTMIKGL YGINEDVFLS VPCILGQNGI
SDVVKVTLTP EEEARLK KSA DTLWGIQKEL QFLEHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >95% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [Ldha lactate dehydrogenase A \[Mus musculus \]](#)

Official Symbol [Ldha](#)

Synonyms LDHA; LDH-M; M-LDH; Ldh1; Ldhm; I7R2;

Gene ID [16828](#)

mRNA Refseq [NM_001136069](#)

Protein Refseq [NP_001129541](#)

MIM

UniProt ID

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Pathway

Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem; Glycolysis / Gluconeogenesis, conserved biosystem; Glycolysis and Gluconeogenesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

L-lactate dehydrogenase activity; L-lactate dehydrogenase activity; L-lactate dehydrogenase activity; NAD binding; catalytic activity; identical protein binding; kinase binding; lactate dehydrogenase activity; nucleotide binding

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