

Active Recombinant Full Length Human LDHA Protein, C-Flag-tagged

Cat. No. LDHA-494HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LDHA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Higher specific activity than endogenous human LDHA: Human recombinant LDHA was compared side-by-side with purified human liver LDH5 in a spectrophotometric pyruvate to lactate conversion assay. Activity is shown as a decrease in absorbance at 340nm over time. The activity of recombinant human LDHA is comparable to that of endogenously expressed human LDH5.
Molecular Mass	36.5 kDa

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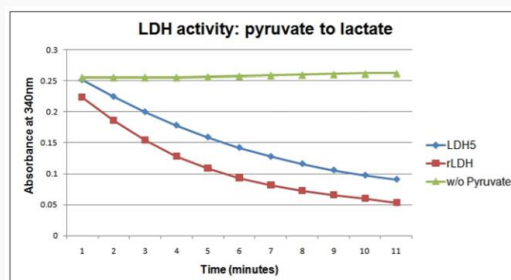
AA Sequence	MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLG GEMMDLQHGSFLRTPKIVSGKDYNVTANSKLVITAGARQQEGESRLNLVQRNVNI FKFIIPNVVKYSPNCKLLIVSNPV DILTYVAWKISGFPPKNRVIGSGCNLDSARFRYLMG ERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVS LKTLHPDLGTDKDKEQWKE VHKQVVESAYEVIKLGKGYTSAIGLSVADLAESIMKNLRRVHPVSTMIKGL YGIKDDVFLSVPCILGQNGISDLVKVTLTSEEEARLKKSADTLWGIQKELQFTRTRPL EQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
Full Length	Full L.
GENE INFORMATION	
Gene Name	LDHA lactate dehydrogenase A [Homo sapiens (human)]

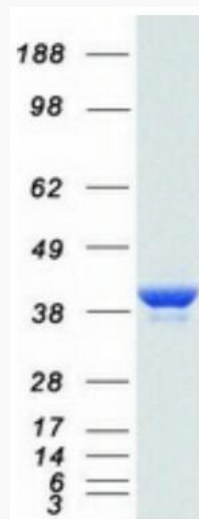
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Official Symbol	LDHA
Synonyms	LDHM; GSD11; PIG19; HEL-S-133P
Gene ID	3939
mRNA Refseq	NM_005566.4
Protein Refseq	NP_005557.1
MIM	150000
UniProt ID	P00338





Coomassie blue staining of purified LDHA protein.

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