

Product datasheet for **TP309378M**

LDHA (NM_005566) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human lactate dehydrogenase A (LDHA), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209378 representing NM_005566 Red =Cloning site Green =Tags(s)

MATLKDQLIYNLLKKEEQTPQNKITVGVGAVGMACAISILMKDLADELALVDVIEDKLGEMMDLQHGSL
FLRTPKIVSGKDYNVTANSKLVITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPV
DILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVS
LKTLPDLGTDKKEQWKEVHKQVVEYAEVIKLGKGYTSAIGLSVADLAESIMKNLRRVHPVSTMIKGL
YGIKDDVFLSVPICILGQNGISDLVKVTLTSEEEARLKKSADTLWGIQKELQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	36.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Higher specific activity than endogenous human LDHA: OriGene human recombinant LDHA (TP309378) 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.
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



[View online »](#)

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005557](#)

Locus ID: 3939

UniProt ID: [P00338](#), [V9HWB9](#)

RefSeq Size: 1661

Cytogenetics: 11p15.1

RefSeq ORF: 996

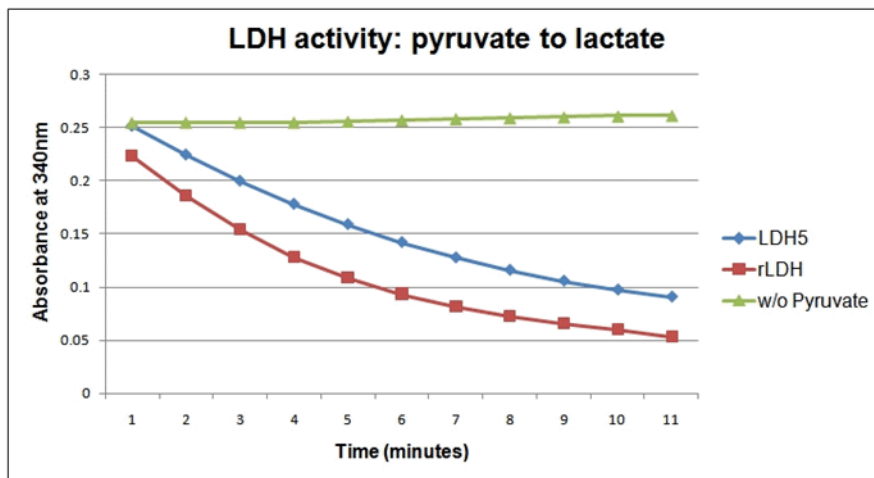
Synonyms: GSD11; HEL-S-133P; LDHM; PIG19

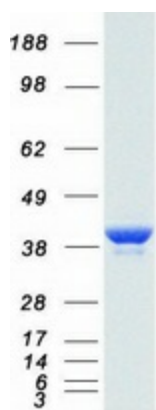
Summary: The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene. [provided by RefSeq, Sep 2008]

Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

Product images:





Coomassie blue staining of purified LDHA protein (Cat# [TP309378]). The protein was produced from HEK293T cells transfected with LDHA cDNA clone (Cat# [RC209378]) using MegaTran 2.0 (Cat# [TT210002]).