

# Recombinant mouse Lactate Dehydrogenase A/LDHA protein

Catalog Number: ATGP4118

## PRODUCT INFORMATION

---

### Expression system

Baculovirus

### Domain

1-332aa

### UniProt No.

P06151

### NCBI Accession No.

NP\_034829

### Alternative Names

L-lactate dehydrogenase A chain isoform 1, LDH muscle subunit (LDH-M), Ldha, 17R2, Ldh1, Ldhm, LDH-A, LDH muscle smb

### Additional Information

ATGP3341 has been replaced with a catalog number ATGP4118.

## PRODUCT SPECIFICATION

---

### Molecular Weight

37.5 kDa (340aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Specific activity is > 250unit/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°C.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# Recombinant mouse Lactate Dehydrogenase A/LDHA protein

Catalog Number: ATGP4118

## BACKGROUND

### 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. Recombinant mouse Ldha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

MATLKDQLIV NLLKEEQAPQ NKITVVGVA VGMACAISIL MKDLADELAL VDVMEKDKLG EMDLQHGSL FLKTPKIVSS  
KDYCVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFI IPNIVKYSPP CKLLIVSNPV DILTYVAWKI SGFPKNRVIG  
SGCNLDSARF RYLMGERLGV HALSCHGWVL GEHGDSSVPV WSGVNVAGVS LKSLNPELGT DADKEQWKEV  
HKQVVDAYSAYE VIKLKGYSW AIGLSVADLA ESIMKNLRRV HPISTMIKGL YGINEDVFLS VPCILGQNGI SDVVKVTLTP  
EEEARLKKSA DTLWGIQKEL QF<LEHHHHHH>

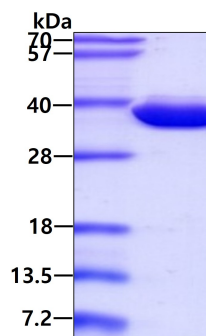
### General References

Rong Y., et al. (2013) Tumour Biol. 34(3):1523-1530.

Merkle S., et al. (1992) Genetics. 131(2):413-421.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.