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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.



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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

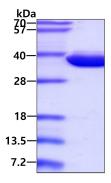
MATLKDQLIV NLLKEEQAPQ NKITVVGVGA VGMACAISIL MKDLADELAL VDVMEDKLKG EMMDLQHGSL FLKTPKIVSS KDYCVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFI IPNIVKYSPH CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLDSARF RYLMGERLGV HALSCHGWVL GEHGDSSVPV WSGVNVAGVS LKSLNPELGT DADKEQWKEV HKQVVDSAYE VIKLKGYTSW AIGLSVADLA ESIMKNLRRV HPISTMIKGL YGINEDVFLS VPCILGQNGI SDVVKVTLTP EEEARLKKSA DTLWGIQKEL QF<LEHHHHHHH>

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

