Recombinant human Lactate Dehydrogenase B/LDHB protein

Catalog Number: ATGP0616

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-334aa

UniProt No.
P07195

NCBI Accession No.
NP_002291.1

Alternative Names
Renal carcinoma antigen NY-REN-46, Lactate dehydrogenase B, L-lactate dehydrogenase B chain, LDH-H, LDH-B, LDH heart subunit

PRODUCT SPECIFICATION

Molecular Weight
38.8 kDa (354aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT

Purity
> 95% by SDS-PAGE

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

Biological Activity
Specific activity is > 300unit/mg, in which one unit will convert 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37C.

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

LDHB, also known as L-lactate dehydrogenase B chain, is a member of the lactate dehydrogenase family. It is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD+. As this protein can also catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD). The LDH family consists of three members, LDH-A, LDH-B and LDH-C. LDHs function as powerful markers for germ cell tumors. Recombinant human LDHB protein, fused to His-tagging at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

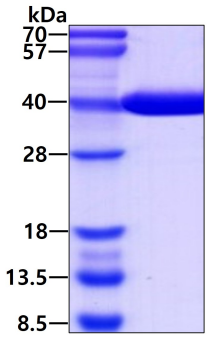
<MGSSHHHHHH SSGLVPRGSH> MATLKEKLIA PVAEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLK GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKLG IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE VHKMVVESAY EVIKLKGYTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFL SLPCILNARG LTSVINQKLK DDEVAQLKKS ADTLWDIQKD LKDL

General References

Read JA., et al. (2001) Proteins. 43(2):175-85.
Butt AA., et al. (2002) AIDS. 12(7):317-21.

DATA

SDS-PAGE



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