

LDHB active protein

LDHB, 1-334aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48607	HOST E Coli	APPLICATIONS SDS-Page
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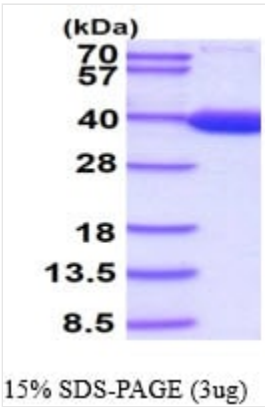
PRODUCT SYNONYMS

LDHB; 1-334aa; Human; His tag; E Coli (Bioactivity Validated); L-lactate dehydrogenase B chain; LDH-H; TRG-5.; LDH-B; LDH heart subunit; Renal carcinoma antigen NY-REN-46; LDHB active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol 1mM DTT.
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MATLKEKLI PVAEEEEATVP NNKITVVGVG QVGMACAI SI LGKSLADELA LVDVLEDK LK GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKL G IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE VHKMVVESAY EVIKLKG YTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFL SLPCILNARG LTSVINQKLK DDEVAQLKKS ADTLWDIQKD LKDL
Sequence Length	334
Applicable Applications for LDHB active protein	Enzyme Activity, SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 300 units/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.
Preparation and Storage	Can be stored at 2-8 degree C short term for 1 week. For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



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

ADDITIONAL INFORMATION

Related Product Information for LDHB active protein	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.
Product Categories/Family for LDHB active protein	Cancer
References	Read JA., et al. (2001) Proteins. 43 (2):175-85. ; Butt AA., et al. (2002) AIDS. 12 (7):317-21. ;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557032
NCBI GeneID	3945
NCBI Accession #	NP_002291
NCBI GenBank Nucleotide #	NM_002300.7
UniProt Accession #	P07195
Molecular Weight	38.8 kDa (354aa) confirmed by MALDI-TOF
NCBI Official Full Name	L-lactate dehydrogenase B chain isoform LDHB
NCBI Official Synonym Full Names	lactate dehydrogenase B
NCBI Official Symbol	LDHB
NCBI Official Synonym Symbols	LDH-B; LDH-H; LDHBD; TRG-5; HEL-S-281
NCBI Protein Information	L-lactate dehydrogenase B chain
UniProt Protein Name	L-lactate dehydrogenase B chain
UniProt Gene Name	LDHB
UniProt Synonym Gene Names	LDH-B; LDH-H

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

