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**Product Data Sheet**


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Product Name: LDHB Human  
 Cat. No.: GP21877  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lactate Dehydrogenase B; Renal Carcinoma Antigen NY-REN-46; LDH Heart Subunit; EC 1.1.1.27; LDH-B; LDH-H; Epididymis Secretory Protein Li 281; Testicular Secretory Protein Li 25; Lactate Dehydrogenase HChain; HEL-S-281; EC 1.1.1 ; LDHBD; TRG-5.		
Amino Acid Sequence	MATLKEKLIAPVAEEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLG GEMMDLQHGS LFLQTPKIVADKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWKL SGLPKHRVI GSGCNLDSAR FRYLMAEKLG IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMGT DNDSENWKE VHKMVVESAY EVIKLKG YTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFLSLPCILNARG LTSVINQKLG DDEVAQLKKS ADTLWDIQKD LKDL.		
Formulation	The LDHB solution (1mg/ml) contains 20mM Tris-HCl (pH 8.0), 10% glycerol and 1mM DTT.		

**Introduction**

LDHB is part of the lactate dehydrogenase family. LDHB is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD<sup>+</sup>. LDHB catalyzes the oxidation of hydroxybutyrate, and frequently 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.

**Biological Activity**

Specific activity is >300 units/mg, in which 1 unit will convert 1.0 umole of pyruvate to L-lactate and beta-NAD per min at pH 7.5 at 37°.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

LDHB Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 334 amino acids (1-334) and having a molecular mass of 36.6kDa.

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