
Product Data Sheet

Product Name: LDHB Human, His
 Cat. No.: GP21876
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	LDH-H; TRG-5; L-lactate dehydrogenase B chain; LDH-B; EC=1.1.1.27; Renal carcinoma antigen NY-REN-46; LDHB.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MATLKEKLI PVAEEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLG GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKL IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE VHKMVVESAY EVIKLKG YTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFL SLPCILNARG LTSVINQKLG DDEVAQLKKS ADTLWDIQKD LKDL.		
Formulation	LDHB Human solution containing 20mM Tris-HCl pH-8, 1mM DTT, & 10% glycerol.		

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⁺. 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 > 6 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 37°C .

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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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 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 354 amino acids (1-334 a.a.) and having a molecular mass of 38.8 kDa. The LDHB is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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