

## 32-2503: LDHB Recombinant Protein

**Alternative Name :** LDH-H,TRG-5,L-lactate dehydrogenase B chain,LDH-B,EC=1.1.1.27,Renal carcinoma antigen NY-REN-46,LDHB.

### Description

Source : Escherichia Coli. 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 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 25 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** LDHB Human solution containing 20mM Tris-HCl pH-8, 1mM DTT, & 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MATLKEKLI PVAEEETVP NNKITVVG VG QVGMACAISI LGKSLADELA LVDVLEDKLG GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKLGIHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNSENWKE VHKMVVESAY EVIKLKG YTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFL SLPCILNARG LTVINQKLG DDEVAQLKKS ADTLWDIQKD LKDL.

### Application Note

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.

