

## 32-7214: Recombinant Human L-Lactate Dehydrogenase B Chain/LDH-B (N-6His)

**Gene :** LDHB  
**Gene ID :** 3945  
**Uniprot ID :** P07195

### Description

Source: E.coli.  
MW :38.8kD.

Recombinant Human LDH-B is produced by our E.coli expression system and the target gene encoding Met1-Leu334 is expressed with a 6His tag at the N-terminus. L-Lactate Dehydrogenase B Chain (LDH-B) is a member of the lactate dehydrogenase family that consists of three members, LDH-A, LDH-B and LDH-C; members of this family function as powerful markers for germ cell tumors. LDH-B is an oxidoreductase that catalyzes the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD<sup>+</sup>. It converts pyruvate to lactate when oxygen is absent or in short supply and it performs the reverse reaction during the Cori cycle in the liver. It is also called Hydroxybutyrate Dehydrogenase (HBD) due to its ability to catalyze the oxidation of hydroxybutyrate.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMATLKEKLIAPVAEEEEATVPNNKITVVGVGQVGMACAISILGKSLADELALVDV  
LEDKLGEMMDLQHGSFLQTPKIVADKDYSVTANSKIVVVTAGVRQQEGESRLNLVQRNVNVFKFIIPQIVKYS  
PDCIIVVSNPVDILTYVTWKL SGLPKHRVIGSGCNLDSARFRYLMAEKLGIHPSSCHGWILGEHGDSSVAVWSG  
VNVAGVSLQELNPEMGTDNDSENWKEVHKM VVESAYEVIKLGKGYTNWAIGLSVADLIESMLKNLSRIHPVSTM  
VKGMYGIENEVFLSLPCLNARGLT VINQKLKDEVAQLKKSADTLWDIQDLKDL

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.