



Recombinant Protein Technical Manual
Recombinant Human LDH-B/LDHB Protein (His Tag)
RPES3674

Product Data:

Product SKU: RPES3674

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P07195

Protein Information:

Molecular Mass: 38.8 kDa

AP Molecular Mass: 37 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: L-lactate Dehydrogenase B Chain; LDH-B; LDH Heart Subunit; LDH-H; Renal Carcinoma Antigen NY-REN-46; LDHB

Immunogen Information:

Sequence: Met 1-Leu334

Background:

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⁺. 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.