

Native Bovine Pyruvate Dehydrogenase (lipoamide) Beta

Cat. No. PDHB-1860B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Bovine PDHB was expressed in bovine heart.
Species	Bovine
Source	Bovine Heart
Description	PDHB, also known as pyruvate dehydrogenase E1 component subunit beta, mitochondrial or PDHE1-B is an enzyme that in humans is encoded by the PDHB gene. The PDHB is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 beta subunit.
Form	Liquid in 50 mM Tris-HCl, pH 7.0 + 14 mM β-mercaptoethanol + 1 mM benzamidine + 0.1 mM phenylmethanesulfonyl fluoride + 1 mM EDTA + 10% glycerol
Purity	> 90% as determined by SDS-PAGE analysis, subunit apparent Mr's ~ 74,000 (E2), 53,000 (E3), 41,000 (E1a), 48,000 (E3-BP) and 36,000 (E1b). Apparent Mr ~ 8,500,000 by sedimentation equilibrium centrifugation.
Concentration	0.2 mg/ml

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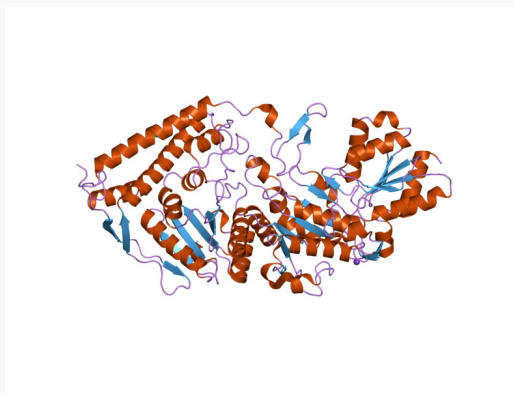
Specific Activity	12-18 μmol of NADH formed per minute per mg of protein with pyruvate as substrate.
Storage	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	PDHB
GENE INFORMATION	
Gene Name	PDHB pyruvate dehydrogenase(lipoamide) beta [Bos taurus]
Synonyms	PDHB; pyruvate dehydrogenase (lipoamide) beta; pyruvate dehydrogenase E1 component subunit beta, mitochondrial; PDHE1-B; EC 1.2.4.1; PDHA; PDHAL; PDHCE1A; PHE1A; PHE1
Gene ID	613610
mRNA Refseq	NM_001035435
Protein Refseq	NP_001030512
UniProt ID	P11966
Pathway	Butanoate metabolism; Citrate cycle (TCA cycle); Glycolysis/Gluconeogenesis; Metabolic pathways; Pyruvate metabolism; Pyruvate metabolism and Citric Acid (TCA) cycle; Pyruvate oxidation, pyruvate => acetyl-CoA; Regulation of pyruvate dehydrogenase (PDH) complex; The citric acid (TCA) cycle and respiratory electron transport; Valine, leucine and isoleucine biosynthesis; Valine, leucine and isoleucine biosynthesis; pyruvate dehydrogenase complex; superpathway of acetyl-CoA biosynthesis
Function	oxidoreductase activity; pyruvate dehydrogenase (acetyl-transferring) activity

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PDB rendering
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