

## Product datasheet for **AR09553PU-N**

### LDHB (1-334, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	LDHB (1-334, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MATLKEKLI PVAEEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLG GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKLK IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE VHKMIVESAY EVIKLKGYN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFL SLPCILNARG LTSVINQKLK DDEVAQLKKS ADTLWDIQKD LKDL
Tag:	His-tag
Predicted MW:	38.8 kDa
Concentration:	lot specific
Purity:	>95% by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT
Bioactivity:	Biological: Specific activity is > 300 units/mg, in which one unit will convert 1.0 μmole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37°C.
Preparation:	Liquid purified protein
Protein Description:	Recombinant human LDHB protein, fused to His-tagging at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001167568</a>
Locus ID:	3945
UniProt ID:	<a href="#">P07195</a> , <a href="#">Q5U077</a>



[View online »](#)

**Cytogenetics:** 12p12.1

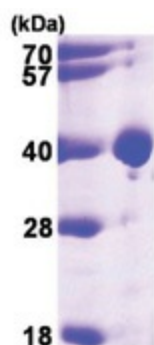
**Synonyms:** HEL-S-281; LDH-B; LDH-H; LDHBD; TRG-5

**Summary:** This gene encodes the B subunit of lactate dehydrogenase enzyme, which catalyzes the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD<sup>+</sup> in a post-glycolysis process. Alternatively spliced transcript variants have been found for this gene. Recent studies have shown that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Mutations in this gene are associated with lactate dehydrogenase B deficiency. Pseudogenes have been identified on chromosomes X, 5 and 13. [provided by RefSeq, Feb 2016]

**Protein Families:** Druggable Genome

**Protein Pathways:** Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

### Product images:



15% SDS-PAGE (3ug)