

Product datasheet for AR09387PU-L

LDHA (1-332, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: LDHA (1-332, His-tag) human recombinant protein, 0.5 mg

Species: Human E. coli **Expression Host:**

Expression cDNA Clone

MGSSHHHHHH SSGLVPRGSH MATLKDQLIY NLLKEEQTPQ NKITVVGVGA VGMACAISIL or AA Sequence: MKDLADELAL VDVIEDKLKG EMMDLQHGSL FLRTPKIVSG KDYNVTANSK LVIITAGARQ

> QEGESRLNLV QRNVNIFKFI IPNVVKYSPN CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLDSARF RYLMGERLGV HPLSCHGWVL GEHGDSSVPV WSGMNVAGVS LKTLHPDLGT DKDKEQWKEV HKQVVESAYE VIKLKGYTSW AIGLSVADLA ESIMKNLRRV HPVSTMIKGL YGIKDDVFLS VPCILGQNGI

SDLVKVTLTS EEEARLKKSA DTLWGIQKEL QF

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 20% glycerol, 0.1 M NaCl

Bioactivity: Biological: Specific activity is > 20 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

(see "Protocols").

Liquid purified protein Preparation:



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Applications: Protocol: Activity Assay

1. Prepare a 1.5 ml reaction mix into a suitable container, adjust to pH 7.5 at 37°C and prechill on ice before use: The final concentrations are 100 mM Sodium phosphate, 0.12 mM beta-nicotinamide adenine dinucleotide, reduced form, 2.3 mM Pyruvate, 0.033% (w/v) bovine

serum albumin.

2. Equilibrate to 37°C and monitor at A340nm until the value is constant using a

spectrophotometer

3. Add 50ul of recombinant LDHA protein in various concentrations (0.1ug, 0.5ug) in assay

buffer.

4. Mix by inversion and record the increase at A340nm for 5 minutes.

Protein Description: Recombinant LDHA protein, fused to His-tag, 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: NP 001128711

 Locus ID:
 3939

 UniProt ID:
 P00338

 Cytogenetics:
 11p15.1

Synonyms: GSD11; HEL-S-133P; LDHM; PIG19

Summary: The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate

and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-

transcribed pseudogenes of this gene. [provided by RefSeq, Sep 2008]

Protein Families: Druggable Genome

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

Propanoate metabolism, Pyruvate metabolism



Product images:

