

AR51991PU-S**E. coli LDHD (1-329, His-tag) - Purified**

Alternate names:	D-LDH, D-lactate dehydrogenase, DLD, Lactate dehydrogenase D, mitochondrial
Quantity:	20 µg
Concentration:	1.0 mg/ml (determined by bradford assay)
Background:	Idha, also known as D-lactate dehydrogenase, belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. In enzymology, a D-lactate dehydrogenase (cytochrome) is an enzyme that catalyzes the chemical reaction. Thus, the two substrates of this enzyme are (D)-lactate and ferricytochrome c, whereas its two products are pyruvate and ferrocyanochrome c. Recombinant E.coli IdhA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Uniprot ID:	P52643
NCBI:	NP_415898
GeneID:	946315
Species:	E. coli
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 100mM NaCl.
Description:	AA Sequence: MGSSHHHHHH SGLVPRGSH MATLKEKLI A PVAEEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLK GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKLK IHPSSCHGWI LGEHGDSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE VHKMVVESAY EVIKLKG YTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG MYGIENEVFL SLPCILNARG LTSVINQKLK DDEVAQLKKS ADTLWDIQKD LKDL Specific Activity: Specific activity is > 200 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 37C. Molecular weight: 39.1 kDa (353aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Atlante, A., et al. (2005) Biochim. Biophys. Acta 1708 (1): 13-22. Martin Engqvist, et al. (2009) J Biol Chem. 284 (September 11): 25026-25037.

Pictures:

