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Schillerstr. 5

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 dehydrogese, belongs to the D-isomer specific

2-hydroxyacid dehydrogese family. In enzymology, a D-lactate dehydrogese (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 ferrocytochrome c. Recombint E.coli IdhA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventiol

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 SSGLVPRGSH MATLKEKLIA PVAEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLK GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKLG IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE VHKMVVESAY EVIKLKGYTN 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.

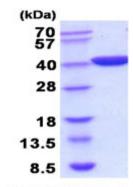
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

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:



15% SDS-PAGE (3ug)