

Active Recombinant E.coli IdhA Protein, His-tagged

Cat. No. IdhA-391E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli IdhA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	E.coli
Source	E.coli
Description	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 ferrocytochrome c.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 100mM NaCl
Bio-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 Mass	39.1kDa (353aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MATLKEKLI PVAEEEEATVP NNKITVVGVG QVGMACAISI LGKSLADELA LVDVLEDKLG GEMMDLQHGS LFLQTPKIVA DKDYSVTANS KIVVVTAGVR QQEGESRLNL VQRNVNVFKF IIPQIVKYSP DCIIVVSNP VDILTYVTWK LSGLPKHRVI GSGCNLDSAR FRYLMAEKL IHPSSCHGWI LGEHGDSSVA VWSGVNVAGV SLQELNPEMG TDNDSENWKE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VHKMVVESAY EVIKLKGYTN WAIGLSVADL IESMLKNLSR IHPVSTMVKG
MYGIENEVFL SLPCILNARG LTSVINQKLK DDEVAQLKKS ADTLWDIQKD LKDL

Purity >95% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ldhA fermentative D-lactate dehydrogenase, NAD-dependent \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Official Symbol [ldhA](#)

Synonyms ECK1377; hslF; hslI; htpH; JW1375; fermentative D-lactate dehydrogenase, NAD-dependent

Gene ID [946315](#)

mRNA Refseq

Protein Refseq [NP_415898](#)

MIM

UniProt ID [P52643](#)

Pathway Microbial metabolism in diverse environments, organism-specific biosystem; Pyruvate

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metabolism, organism-specific biosystem; mixed acid fermentation, conserved biosystem

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