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

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	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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