

ldhA, 1-329aa, E.coli, His tag, E.coli

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3th Edition

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

Description: ldhA, 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 ldhA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 100mM NaCl

Molecular Weight: 39.1kDa (353aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMATLKEKLIAPVAEEEEATVPNNKITVVGVGQVGMACAISILGKSLADELALVDVLED
KLKGEEMMDLQHGSFLQTPKIVADKDYSVTANSKIVVVTAGVRQQEGESRLNLVQRNVNVFKFIIPQIVKYSPDCIIIV
VSNPVDILTYVTWKL SGLPKHRVIGSGCNLDSARFRYLMAEKLGIHPSSCHGWILGEHGDSSVAVWSGVNVAGVSL
QELNPEMGTDNDSENWKEVHKM VVESAYEVIKLGKGYTNWAIGLSVADLIESMLKNLSRIHPVSTMVKGMYGIENEV
FLSLPCILNARGLTSVINQKLKDDEVAQLKKSADTLWDIQKDLKDL

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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