

Recombinant E.coli L-lactate dehydrogenase/LLDD protein

Catalog Number: ATGP1563

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-396aa

UniProt No.

P33232

NCBI Accession No.

NP_418062

Alternative Names

L-lactate dehydrogenase, ECK3595, JW3580, lct, lctD

PRODUCT SPECIFICATION

Molecular Weight

45.3 kDa (420aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

lIdD, also known as L-lactate dehydrogenase, is present in a wide variety of organisms, including plants and animals. It is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD⁺. As it can also catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD). Recombinant E. coli lIdD protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

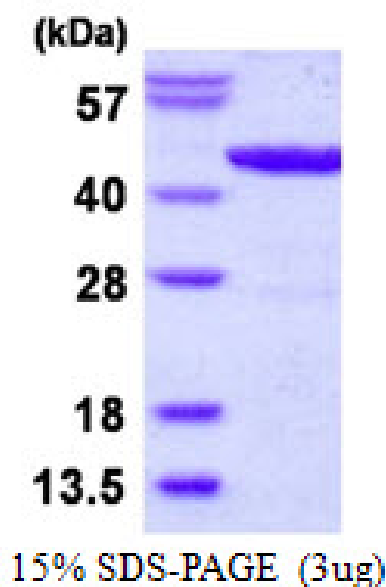
MGSSHHHHHH SSGLVPRGSH MGSBMIISAA SDYRAAAQRI LPPFLFHYMD GGAYSEYTLR RNVEDLSEVA LRQRILKNMS
DLSLETTLFN EKLSMPVALA PVGLCGMYAR RGEVQAAKAA DAHGIPFTLS TVSVCPIEEV APAIKRPMWF QLYVLRDRGF
MRNALERAKA AGCSTLVFTV DMPTPGARYR DAHSGMSGPN AAMRRYLQAV THPQAWDVG LNGRPHDLGN
ISAYLGKPTG LEDYIGWLGN NFDPSISWKD LEWIRDFWDG PMVIKGILDP EDARDAVRFG ADGIVVSNHG GRQLDGVLS
ARALPAIADA VKGDAILAD SGIRNGLDVV RMIALGADTV LLGRAFLYAL ATAGQAGVAN LLNLIEKEMK VAMTLTGAKS
ISEITQDSLQ QGLGKELPAA LAPMAKGNA

General References

Ogura Y., et al. (2009) Proc. Natl. Acad. Sci. u.S.A. 106:17939-17944

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.