

**AR50387PU-N****IldD (1-396, His-tag) - Purified****Alternate names:**

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

**Quantity:**

0.1 mg

**Concentration:**

1mg/ml (determined by Bradford assay)

**Background:**

IldD, 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<sup>+</sup>. As it can also catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD).

**Uniprot ID:**[P33232](#)**NCBI:**[NP\\_418062.1](#)**GeneID:**[948121](#)**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT**Description:**

Recombinant E.coli IldD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MGSHTIISAA SDYRAAAQRI LPPFLFHYMD GGAYSEYTLR  
RNVEDLSEVA LRQRILKNMS DLSLETTLFN EKLSMPVALA PVGLCGMYAR RGEVQAAKAA  
DAHGIPFTLS TVSVCPIEEV APAIKRPMWF QLYVLRDRGF MRNALERAKA AGCSTLVFTV  
DMPTPGARYR DAHSGMSGPN AAMRRYLQAV THPQAWDVG LNGRPHDLGN ISAYLGKPTG  
LEDYIGWLG NFDPSISWKD LEWIRDFWDG PMVIKILDP EDARDAVRFV ADGIVVSNHG  
GRQLDGVLS ARALPAIADA VKGDIAILAD SGIRNGLDVV RMIALGADTV LLGRAFLYAL  
ATAGQAGVAN LLNLIKEMK VAMTLTGAKS ISEITQDSLQ QGLGKELPAA LAPMAKGNAA

**Molecular weight:** 45.3 kDa (420aa), 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:**

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

Pictures:

