

**lIdD, 1-396aa, E.coli, His tag, E.coli**

**Cat.NO.: TP02837**

3th Edition

**Synonyms:**L-lactate dehydrogenase, ECK3595, JW3580, lct, lctD.

**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<sup>+</sup>. 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 Nterminus, was expressed in E.coli and purified by using conventional chromatography.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT

**Molecular Weight:**45.3 kDa (420aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMIISAASDYRAAAQRILPPFLFHYMDGGAYSEYTLRRNVEDLSEVALRQRIL  
KNMSDLSLETTLFNEKLSMPVALAPVGLCGMYARRGEVQAACAADAHGIPFTLSTVSVCPIEEVAPAIKRPMWFQL  
YVLRDRGFMRNALERAKAAGCSTLVFTVDMPTPGARYRDAHSGMSGPNAAMRRYLQAVTHPQWAWDVGLNGR  
PHDLGNISAYLGKPTGLEDYIGWLGNNFDPISWKDLEWIRDFWDGPMVIKILDPEDARDAVRFGADGIVVSNHG  
GRQLDGVLSSARALPAIADAVKGDIAILADSGIRNGLDVVRMIALGADTVLLGRAFLYALATAGQAGVANLLNIEKE  
MKVAMTLTGAKSISEITQDSLQGLGKELPAALAPMAKGNA

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.