

**IdhA, 1-329aa, E.coli, His tag, E.coli,**

**Cat.NO.: TP02556**

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3th Edition

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

**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 ferrocyanochrome c. Recombinant E.coli IdhA 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:**

MGSSHHHHHSSGLVPRGSHMGSHMKLAVYSTKQYDKKYLQQVNESFGFELEFFDFLLTEKTAKTANGCEAVCIF  
VNDDGSRPVLEELKKHGKVIKIALRCAGFNVDLDAAKELGLKVVVRVPAYDPEAVAEHAIGMMMTLNRRIRHAYQRT  
RDANFSLEGLTGFTMYGKTAGVIGTGKIGVAMLRILKGFGRLLAFDPYPSAAALELGVVEYVDLPTLFSESDVISLHC  
PLTPENYHLLNEAAFEQMKNGVMIVNTSRGALIDSQAAIEALKNQKIGSLGMDVYENERDLFFEDKSNNDVIQDDVFR  
RLSACHNVLFTHGHAFLTAEALTSISQTTLQNLSNLEKGETCPNELV

**Purity:** > 95% by HPLC

**Concentration:** 1mg/ml

**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.