
Product Data Sheet

Product Name: LDHA, E.Coli Active

Cat. No.: GP26164

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms LDH-A, GSD11, LDH1, LDHM, PIG19, EC 1.1.1.27, lactate dehydrogenase M, LDH-M, LDH-1, L-lactate dehydrogenase A chain, LDH muscle subunit, Renal carcinoma antigen NY-REN-59, Cell proliferation-inducing gene 19 protein, LDHA.

Amino Acid Sequence
 MGSSHHHHHH SGLVPRGSH MGSHMKLAVY STKQYDKKYL QQVNESFGFE
 LEFFDFLLTE KTAKTANGCE AVCIFVNDG SRPVLEELKK HGVKYIALRC
 AGFNNVDLDA AKELGLKVVR VPAYDPEAVA EHAIGMMMTL NRRIHRAYQR
 TRDANFSLEG LTGFTMYGKT AGVIGTGKIG VAMLRILKGF GMRLLAFFDPY
 PSAAALELGV EYVDLPTLFS ESDVISLHCP LTPENYHLLN EAAFEQMKNQ
 VMIVNTSRGA LIDSQAAIEA LKNQKIGSLG MDVYENERDL FFEDKSNDVI
 QDDVFRRLSA CHNVLFTGHQ AFLTAEALTS ISQTTLQNLN NLEKGETCPN ELV

Formulation LDHA E.Coli protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), containing 100mM NaCl and 10% glycerol.

Introduction

D-lactate dehydrogenase or IdhA is an enzyme, part of the D-lactate dehydrogenase protein family. LDHA is a cytochrome that enhances the catalyzation of D-lactate dehydrogenase IdhA reaction. This enzyme has 2 substrates ((D) -lactate & ferricytochrome c), thus, it has 2 end products (pyruvate & ferrocyclochrome c).

Biological Activity

Specific activity is > 200unit/mg. 1 unit converts 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37°C

Stability

Store at 46vC if entire vial will be used within 2-4 weeks. Store. frozen at -206vC for

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C in the dark. The product can be used within 2 weeks after receipt, or within 12 months for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

LDHA E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 353 amino acids (1-329) and having a molecular mass of 39.1 kDa. LDHA E.Coli is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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