
Product Data Sheet

Product Name: LDHA Mouse
 Cat. No.: GP21873
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	L-lactate dehydrogenase A chain; LDH-A; LDH muscle subunit; LDH-M.		
Amino Acid Sequence	MATLKDQLIV NLLKEEQAPQ NKITVVG VGA VGMACAISIL MKDLADELALVDVMEDK LKG EMMDLQH GSL FLKTPKIVSS KDYCVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFIIPNIVKYS PH CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLD SARF RYLMGERLGVHALSCHGWVL GEHGDSSVPV WSGVNVAGVS LKSLNPELGT DADKEQWKEVHKQVVDSAYE VIKLKG YTSW AIGLSVADLA ESIMKNLRRV HPISTMIKGL YGINEDVFLS VPCILGQNGISDVVKVTLTP EEEARLKKSA DTLWGIQKEL QFLEHHHHHH.		
Formulation	LDHA protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

LDHA catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. LDHA is localized primarily in muscle tissue and is part of the lactate dehydrogenase family. Mutations in LDHA have been linked to exertional myoglobinuria. LDH1 is decreased in essential thrombocythemia. LDHA is induced through a non-genomic pathway of estrogen action. Reduction in LDH-A activity results in stimulation of mitochondrial respiration and decrease of mitochondrial membrane potential.

Biological Activity

Specific activity is > 250 units/mg, and is defined as the amount of enzyme that converts 1.0 umole of pyruvate to L-lactate and per minute at pH 7.5 at 37°C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer.

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

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LDHA Mouse Recombinant should be stored at -20°C. For long-term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

LDHA Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 340 amino acids (1-332a.a.) and having a molecular mass of 37.5kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). LDHA is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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