
Product Data Sheet

Product Name: LDHA Rat
 Cat. No.: GP21874
 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	MAALKDQLIV NLLKEEQVPQ NKITVVG VGA VGMACAISIL MKDLADELALVDVIEDKLGK EMDLQHGSL FLKTPKIVSS KDYSVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFIIPNVVKYSPQ CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLD SARF RYLMGERLGV HPLSCHGWVLGEHGDSSVPV WSGVNVAGVS LKSLNPQLGT DADKEQWKDV HKQVVD SAYE VIKLKG YTSW AIGLSVADLAESIMKNLRRV HPISTMIGL YGIKEDVFLS VPCILGQNGI SDVVKVTLTP DEEARLKKSA DTLWGIQKEL QFLEHHHHHH.		
Formulation	LDHA protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4), 1mM DTT and 20% 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.

Stability

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

LDHA Rat Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 340 amino acids (1-332 a.a) and having a molecular mass of 37.5kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA