Toutes les photos (3)

Documents

FDS

COO/COA

Fiche des caractéristiques

Plus de documents

L1254 ▶ Sigma-Aldrich®

L-Lactic Dehydrogenase from rabbit muscle

★★★★★ (0)

Type XI, lyophilized powder, 600-1,200 units/mg protein

Synonyme(s):

Lactate, (*S*)-Lactate: NAD^+ oxidoreductase, L-LDH, LAD, LD

Numéro CAS: 9001-60-9

Numéro de classification (Commission des enzymes): 1.1.1.27 (BRENDA, IUBMB)

Numéro EC: 232-617-8

Numéro MDL: MFCD00131466

NACRES: NA.54

Référence	Conditionnement	Disponibilité		Prix	Quantité
L1254-1KU	1000 UNITS	Only 3 left in stock (more on the way)	Détails...	48,50 €	− +
L1254-5KU	5000 UNITS	Disponible pour expédition le 11 octobre 2022	Détails...	136,00 €	− +
L1254-25KU	25000 UNITS	Only 1 left in stock (more on the way)	Détails...	280,00 €	− +
L1254-50KU	50000 UNITS	Only 1 left in stock (more on the way)	Détails...	510,00 €	− +
L1254-100KU	100000 UNITS	Only 1 left in stock (more on the way)	Détails...	879,00 €	− +

Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS

Roche

LLDH-RO

L-Lactate Dehydrogenase (L-LDH)

Consulter le prix et la disponibilité

Sigma-Aldrich

L2500

L-Lactic Dehydrogenase from rabbit muscle

Type II, ammonium sulfate suspension, 800-1,200 units/mg protein

Consulter le prix et la disponibilité

PROPRIÉTÉS

Source biologique	rabbit muscle
Niveau de qualité	200
Type	Type XI
Forme	lyophilized powder
specific activity	600-1,200 units/mg protein

Poids mol.	140 kDa
Composition	protein, 90-100%
Activité étrangère	pyruvate kinase, myokinase, malic dehydrogenase, glutamic-pyruvic transaminase, glutamic-oxalacetic transaminase and α-glycerophosphate dehydrogenase ≤0.01%
Temp. de stockage	−20°C

Vous recherchez des produits similaires ? Visit Guide de comparaison des produits

DESCRIPTION

Description générale

Lactic Dehydrogenase (LDH) has a total molecular weight of 140 kDa and is composed of 4 subunits which are designated M subunit (muscle) and H subunit (heart). These subunits may be mixed in any of 5 combinations (M4, M3H1, M2H2, MH3, and H4). Skeletal muscle contains LDH that is predominately M4 with some small amounts of M3H and traces of H2H2. The H and M subunits are quite similar in molecular weight, but differ substantially in amino acid composition. Rabbit muscle LDH dissociates into dimeric species (MW = ~70 kDa) in acetate-chloride at pH 5.0, the dissociation is reversible. Biochemistry, **13**, 3527-3531 (1974). Oxidizes glyoxylate and lactate.
Isoelectric point: 8.4-8.6
Optimal pH : 7.5 .

Application

L-Lactic Dehydrogenase from rabbit muscle has been used:

- as a component of activation and relaxing solution in ATPase activity and isometric steady-state tension measurements with muscle fiber
- in *Trypanosoma congolense* pyruvate kinase activity assay
- in pyruvate kinase (PK) assay with rice plastidic PK enzyme OsPK2

Conditionnement

1000, 5000 units in glass bottle

25000, 50000, 100000 units in poly bottle

Actions biochimiques/physiologiques

Muscle-type Lactic Dehydrogenase (LDH) participates in metabolic pathways and its activity is essential for anaerobic glycolysis. LDH activity is inhibited by ascorbate. LDH regenerates nicotinamide adenine dinucleotide (NAD^+) from NADH and is industrially useful in poly(lactic acid) production.

Also catalyzes the oxidation of other L-2-hydroxymonocarboxylic acids.

Définition de l'unité

One unit will reduce 1.0 µmole of pyruvate to L-lactate per min at pH 7.5 at 37 °C.

Remarque sur l'analyse

Protein determined by biuret.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage	WGK	Flash Point(F)	Point d'éclair C
13 - Non Combustible Solids	WGK 3	Not applicable	Not applicable

Équipement de protection individuelle
Eyeshields, Gloves, type N95 (US)

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

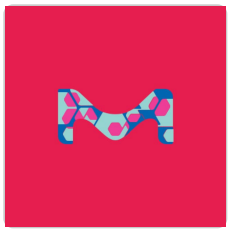
Rechercher

Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



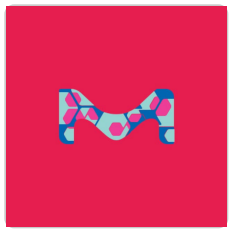
Sigma-Aldrich

L7525

L-Lactic Dehydrogenase from porcine heart

ammonium sulfate suspension, ≥200 units/mg protein

Consulter le prix et la disponibilité



Sigma-Aldrich

427211

Lactate Dehydrogenase, Porcine Heart

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

Method of transmission filters to measure emission spectra in strongly scattering media.

Belén Torrado et al.
Biomedical optics express, 12(7), 3760-3774 (2021-08-31)

We describe a method based on a pair of transmission filters placed in the emission path of a microscope to resolve the emission wavelength of every point in an image. The method can be applied to any type of imaging

Impact of high pyruvate concentration on kinetics of rabbit muscle lactate dehydrogenase.

Matthew Warren Eggert et al.
Applied biochemistry and biotechnology, 165(2), 676-686 (2011-06-01)

In order to evaluate the effectiveness of L: -lactate dehydrogenase (LDH) from rabbit muscle as a regenerative catalyst of the biologically important cofactor nicotinamide adenine dinucleotide (NAD), the kinetics over broad concentrations were studied to develop a suitable kinetic rate

---

Interplay Between the Effects of Dilated Cardiomyopathy Mutation (R206L) and the Protein Kinase C Phosphomimic (T204E) of Rat Cardiac Troponin T Are Differently Modulated by α- and β-Myosin Heavy Chain Isoforms.

John Jeshurun Michael et al.
Journal of the American Heart Association, 5(3), e002777-e002777 (2016-03-24)

We hypothesized that the functional effects of R206L-a rat analog of the dilated cardiomyopathy (DCM) mutation R205L in human cardiac troponin T (TnT)-were differently modulated by myosin heavy chain (MHC) isoforms and T204E, a protein kinase C (PKC) phosphomimic of

---

Aldolase and actin protect rabbit muscle lactate dehydrogenase from ascorbate inhibition.

Percy J Russell et al.
Journal of enzyme inhibition and medicinal chemistry, 19(1), 91-98 (2004-06-19)

Muscle-type LDH (LDH-m4) activity is critical for efficient anaerobic glycolysis. The results here show that rabbit LDH-M4 is inhibited by concentrations of ascorbate normally found in tissues. Aldolase and muscle G-actin were found to protect and to reverse inhibitions of

---

OsPK2 encodes a plastidic pyruvate kinase involved in rice endosperm starch synthesis, compound granule formation and grain filling.

Yicong Cai et al.
Plant biotechnology journal, 16(11), 1878-1891 (2018-03-27)

Starch is the main form of energy storage in higher plants. Although several enzymes and regulators of starch biosynthesis have been defined, the complete molecular machinery remains largely unknown. Screening for irregularities in endosperm formation in rice represents valuable prospect

---

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

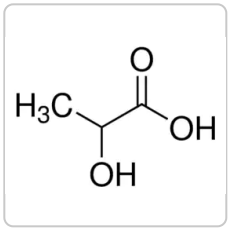
HPLC Analysis of Proteins on BIOshell™ A400 Protein C4, Rapid Separation at Elevated Temperature

For use as a marker in SDS-PAGE; lactate dehydrogenase; contaminant; L-Lactic Dehydrogenase from rabbit muscle, Type XI, lyophilized powder, 600-1,200 units/mg protein

HPLC Analysis of Protein Standards (1) on BIOshell™ A400 Protein C4

For use as a marker in SDS-PAGE; Albumin from chicken egg white, For use as a marker in SDS-PAGE; L-Lactic Dehydrogenase from rabbit muscle, Type XI, lyophilized powder, 600-1,200 units/mg protein

PRODUITS CONSULTÉS RÉCEMMENT



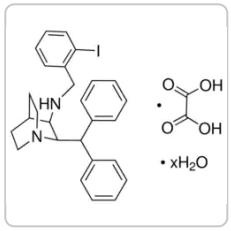
Sigma-Aldrich

L1250

DL-Lactic acid

85 % (w/w), syrup

Consulter le prix et la disponibilité



Sigma-Aldrich

L119

L-703,606 oxalate salt hydrate

solid

Consulter le prix et la disponibilité

Évaluations

★★★★★

Soyez le premier à donner votre avis sur ce produit

Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

Contacter notre Service technique

Le contenu de cette page vous a-t-il été utile ?*

Que pouvons-nous faire pour améliorer cette page spécifique de notre site Internet ?

Envoyer