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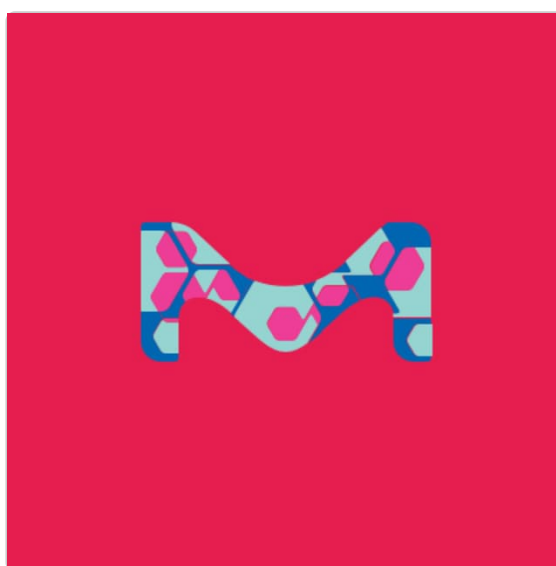


G2626 ▶ **Sigma-Aldrich**

L-Glutamic Dehydrogenase from bovine liver

★★★★★ (0)

Type II, 50% glycerol solution, ≥35 units/mg protein



[Toutes les photos](#) (1)

Synonyme(s):

L-GLDH, L-Glutamate:NAD[P]⁺ Oxidoreductase (deaminating), Glutamate Dehydrogenase from bovine liver

Numéro CAS:

9029-12-3

Numéro de classification (Commission des enzymes):

1.4.1.3 (BRENDA, IUBMB)

Numéro MDL:

MFCD00131461

NACRES:

NA.54

Select an Option

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20 MG

77,80 €

Date d'expédition estimée le 08 novembre 2022

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1

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Sigma-Aldrich

G7882**L-Glutamic Dehydrogenase from bovine liver**

Type III, lyophilized powder, ≥20 units/mg protein

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bovine liver

Niveau de qualité

200

Type

Type II

Forme

glycerol solution (50%)

specific activity

≥35 units/mg protein

Poids mol.

310-350 kDa

N° d'accension UniProt**P00366****Expédié(e)s dans**

wet ice

Temp. de stockage

2-8°C

Gene Informationcow ... **GLUD1(281785)**

Vous recherchez des produits similaires ? Visit [Guide de comparaison des produits](#)

DESCRIPTION

Application

L-glutamic dehydrogenase was used to catalyze the conversion of isocitrate into α-ketoglutarate and carbon dioxide.

Actions biochimiques/physiologiques

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carbon atom of an α -carboxylic acid and thus, is the only source of *de novo* amino acid synthesis in mammalian species.

The bovine enzyme is characterized by three sets of properties:

- It has a reversible concentration-dependent association, producing higher molecular weight forms.
- Forms tight enzyme-reduced coenzyme-substrate ternary complexes whose rates of dissociation modulate the steady-state reaction rates.
- Exhibits a wide variety of effects from the binding of any of a number of nucleotide modifiers.

L-glutamic dehydrogenase catalyzes the conversion of glutamate to α -ketoglutarate.

Définition de l'unité

One unit will reduce 1.0 μ mole of α -ketoglutarate to L-glutamate per min at pH 7.3 at 25 °C, in the presence of ammonium ions.

Forme physique

50% glycerol solution

Remarque sur l'analyse

Protein determined by biuret.

PRODUITS APPARENTÉS

Substrat

K2010

α -Ketoglutaric acid sodium salt, BioUltra

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INFORMATIONS SUR LA SÉCURITÉ

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WGK 1

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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](#)

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G5921

L-Glutamate Oxidase from *Streptomyces* sp.

recombinant, expressed in *E. coli*, lyophilized powder, ≥5.0 unit/mg solid

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ARTICLES REVUS PAR DES PAIRS

Probing the role of the residues in the active site of the transaminase from *Thermobaculum terrenum*.

Bezsudnova, et al.

PLoS ONE, 16, e0255098-e0255098 (2021)

HIV-1 gp120 glycoprotein affects the astrocyte control of extracellular glutamate by both inhibiting the uptake and stimulating the release of the amino acid.

S Vesce et al.

FEBS letters, 411(1), 107-109 (1997-07-07)

The mechanisms of HIV-1 neurotoxicity remain still undefined although the induction of signalling events and a modest inhibition of glutamate uptake induced by the envelope glycoprotein, gp120, have called attention to astrocytes. Here we demonstrate that the levels at which

Identification of the molecular dysfunction caused by glutamate dehydrogenase S445L mutation responsible for hyperinsulinism/hyperammonemia.

Mariagrazia Grimaldi et al.

Human molecular genetics, 26(18), 3453-3465 (2017-09-16)

Congenital hyperinsulinism/hyperammonemia (HI/HA) syndrome gives rise to unregulated protein-induced insulin secretion from pancreatic beta-cells, fasting hypoglycemia and elevated plasma ammonia levels. Mutations associated with HI/HA were identified in the *Glut1* gene, encoding for glutamate dehydrogenase (GDH). We aimed at identifying

Protein kinase A controls the hexosamine pathway by tuning the feedback inhibition of GFAT-1.

Sabine Ruegenberg et al.

Nature communications, 12(1), 2176-2176 (2021-04-14)

The hexosamine pathway (HP) is a key anabolic pathway whose product uridine 5'-diphospho-N-acetyl-D-glucosamine (UDP-GlcNAc) is an essential precursor for glycosylation processes in mammals. It modulates the ER stress response and HP activation extends lifespan in *Caenorhabditis elegans*. The highly conserved

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Ajit S Divakaruni et al.

Analytical biochemistry, 552, 60-65 (2017-10-11)

Activities of enzymes localized to the mitochondrial matrix of mammalian cells are often critical regulatory steps in cellular metabolism. As such, measurement of matrix enzyme activities in response to genetic modifications or drug interventions is often desired. However, measurements in

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

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

G2625

Gelatin from porcine skin

gel strength ~175 g Bloom, Type A

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Évaluations



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