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Saisir le nom du produit, le numéro de lot, etc.

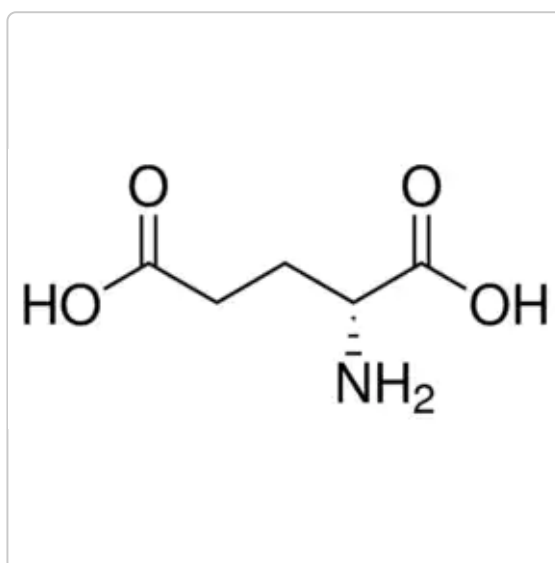


G1001 ► Sigma-Aldrich®

D-Glutamic acid

★★★★★ (0)

≥99% (TLC)



[Toutes les photos](#) (5)

Synonyme(s):

(*R*)-2-Aminoglutaric acid, (*R*)-2-Aminopentanedioic acid, D-Glu, R-(-)-1-Aminopropane-1,3-dicarboxylic acid

Formule linéaire:

HO₂CCH₂CH₂CH(NH₂)CO₂H

Numéro CAS:

6893-26-1

Poids moléculaire:

147.13

Beilstein:

1723800

Numéro EC:

230-000-8

Numéro MDL:

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NACRES:

NA.32

Select an Option

Référence

G1001-1G



1 G

25,60 €



Disponible pour expédition le 10 octobre 2022 - **De**

—

1

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Ajouter au panier

[Demander une commande en gros](#)

Documents

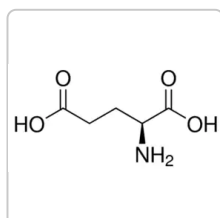
[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

G1251

L-Glutamic acid

ReagentPlus®, ≥99% (HPLC)

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PROPRIÉTÉS

Niveau de qualité

200

Essai/Dosage

≥99% (TLC)

Forme

powder

technique(s)

ligand binding assay: suitable

Couleur

white to off-white

Pf

200-202 °C (subl.) (lit.)

SMILES stringN[C@H](CCC(O)=O)C(O)=O**InChI**

1S/C5H9NO4/c6-3(5(9)10)1-2-4(7)8/h3H,1-2,6H2,(H,7,8)(H,9,10)/t3-/m1/s1

InChI key

WHUUTDBJXRKMK-GSVOUGTGSA-N

Gene Informationhuman ... [CCR2\(1231\)](#)

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

Catégories apparentées

[Amino Acids](#)

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Description générale

D-Glutamic acid is an essential constituent of the bacterial peptidoglycan structure. It is added to UDP-N-acetylmuramyl-L-alanine (UDP-MurNAc-L-alanine) by the enzyme D-glutamic acid-adding enzyme (murD). This is, then, incorporated into the peptidoglycan precursor. Peptidoglycan makes up the cell walls of Gram-positive and -negative bacteria. The conversion of L-glutamate to D-glutamate by glutamate racemase (GR) enzyme is an essential step in the synthesis of peptidoglycan.

Application

D-glutamic acid is suitable for use in the structure-affinity relationship (SAR)-study of GR (glutamate racemase) enzyme and its inhibitors.

Conditionnement

1, 5, 25, 100 g in poly bottle

Actions biochimiques/physiologiques

Unnatural isomer of glutamic acid.

PRODUITS APPARENTÉS

Application

G005335

HPLC Analysis of Glutamic Acid Enantiomers on Astec[®] CHIROBIOTIC[®] T (25 °C), application for HPLC

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INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 1

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Point d'éclair

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

[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

[Structure Search](#)

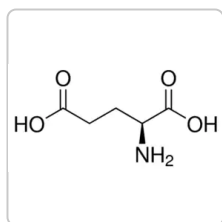
[FDS](#)

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Sigma-Aldrich

G8415

L-Glutamic acid

from non-animal source, meets EP testing specifications, suitable for cell culture, 98.5-100.5%

[Consulter le prix et la disponibilité](#)

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ARTICLES REVUS PAR DES PAIRS

Identification of the Escherichia coli murl gene, which is required for the biosynthesis of D-glutamic acid, a specific component of bacterial peptidoglycan.

P Doublet et al.

Journal of bacteriology, 174(18), 5772-5779 (1992-09-01)

The murl gene of Escherichia coli, whose inactivation results in the inability to form colonies in the absence of D-glutamic acid, was identified in the 90-min region of the chromosome. The complementation of an auxotrophic E. coli B/r strain by

Hybrid Steered Molecular Dynamics-Docking: An Efficient Solution to the Problem of Ranking Inhibitor Affinities Against a Flexible Drug Target.

Katie L Whalen et al.

Molecular informatics, 30(5), 459-471 (2011-07-09)

Existing techniques which attempt to predict the affinity of protein-ligand interactions have demonstrated a direct relationship between computational cost and prediction accuracy. We present here the first application of a hybrid ensemble docking and steered molecular dynamics scheme (with a

Allosteric control of an ionotropic glutamate receptor with an optical switch.

Matthew Volgraf et al.

Nature chemical biology, 2(1), 47-52 (2006-01-13)

The precise regulation of protein activity is fundamental to life. The allosteric control of an active site by a remote regulatory binding site is a mechanism of regulation found across protein classes, from enzymes to motors to signaling proteins. We

Subthalamic GAD gene therapy in a Parkinson's disease rat model.

Jia Luo et al.

Science (New York, N.Y.), 298(5592), 425-429 (2002-10-12)

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Expression of the neurotransmitter-synthesizing enzyme glutamic acid decarboxylase in male germ cells.

H Persson et al.

Molecular and cellular biology, 10(9), 4701-4711 (1990-09-01)

The gene encoding glutamic acid decarboxylase (GAD), the key enzyme in the synthesis of the inhibitory neurotransmitter gamma-aminobutyric acid, is shown to be expressed in the testis of several different species. Nucleotide sequence analysis of a cDNA clone isolated from

[Afficher tous les articles scientifiques apparentés](#)

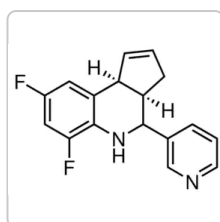
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Chromatograms

HPLC Analysis of Glutamic Acid Enantiomers on Astec® CHIROBIOTIC® T (25 °C)

application for HPLC

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G0923

Golgicide A

≥98% (HPLC)

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Évaluations



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Questions

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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..

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