[Toutes les photos \(2\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents >>](#)**N7502** ▶ **Sigma-Aldrich.**

DL-Norvaline

★★★★★ (0)

Synonyme(s):

(±)-2-Aminopentanoic acid

Formule linéaire:

CH₃CH₂CH₂CH(NH₂)COOHNuméro CAS: **760-78-1**

Beilstein: 1721163

Numéro MDL: **MFCD00064420**

NACRES: NA.26

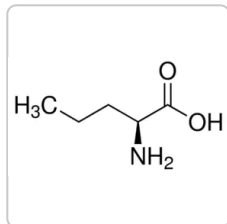
Poids moléculaire: 117.15

Numéro EC: **212-082-7**ID de substance PubChem: **24897829**

Référence	Conditionnement	Disponibilité	Prix	Quantité
N7502-25G	25 G	✔ Only 1 left in stock (more on the way) Détails...	59,70 €	− + 

[Demander une commande en gros](#)[Ajouter au panier](#)

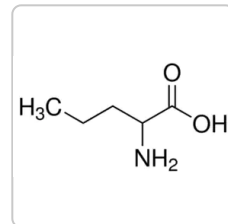
PRODUITS RECOMMANDÉS



Sigma-Aldrich

N7627**L-Norvaline**

arginase inhibitor

[Consulter le prix et la disponibilité](#)

Supelco

53721**DL-Norvaline**

analytical standard

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Essai/Dosage $\geq 98\%$ (TLC)

Niveau de qualité 200

Forme powder

technique(s) HPLC: suitable

Couleur white

Pf $> 300\text{ }^{\circ}\text{C}$

SMILES string CCCC(N)C(O)=O

InChI 1S/C5H11NO2/c1-2-3-4(6)5(7)8/h4H,2-3,6H2,1H3,(H,7,8)

InChI key SNDPXSYPFESPGGJ-UHFFFAOYSA-N

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

Catégories apparentées

Amino Acids

DESCRIPTION

Description générale

Norvaline is a non-proteinogenic α -amino acid and is also called DL- α -aminovaleric acid. It is produced in Gram-negative microorganisms including *Escherichia coli* and is also a part of the antifungal peptide produced by *Bacillus subtilis*.

Application

DL-Norvaline has been used as an internal standard:

- to analyze metabolites in cultured mammalian cells by gas chromatography-mass spectrometry (GC-MS)
- to convert cysteine and cystine to Cys MPA (*S*-2-carboxyethylthio-L-cysteine) and quantify the same using a high-performance liquid chromatography (HPLC) analyzer
- for free amino acid analysis in samples of oocytes by liquid chromatography

Conditionnement

25, 100 g in poly bottle

Actions biochimiques/physiologiques

DL-Norvaline is a neurotransmitter.

Norvaline mediates physiological and pathophysiological processes promoting nitric oxide production. It is used to treat Alzheimer's disease and is effective against artificial metabolic syndrome in rats. Norvaline exhibits phase transition upon cooling below 190 K and hence it is useful in molecular machines. DL-Norvaline serves as a prototype for research in polymorphism and molecular dynamics of aliphatic α -amino acids containing linear side-chain. It influences the activity, stability, and side-chain packaging of proteins.

PRODUITS APPARENTÉS

Application

G004535

HPLC Analysis of Norvaline Enantiomers on Astec® CHIROBIOTIC® T, application for HPLC

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

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

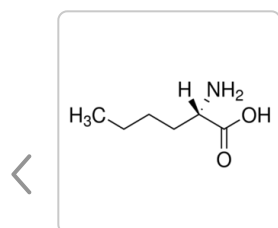
[FT-NMR Spectra](#)

[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

[Structure Search](#)[FDS](#)

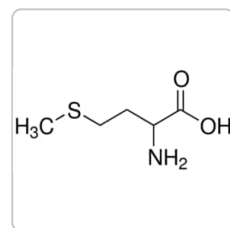
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

N6877**L-Norleucine**

≥98% (TLC)

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

M9500**DL-Methionine**

≥99%

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Exploring the solid state phase transition in dl-norvaline with terahertz spectroscopy.

Jens Neu et al.*Physical chemistry chemical physics : PCCP*, 20(1), 276-283 (2017-12-06)

dl-Norvaline is a molecular crystal at room temperature and it undergoes a phase transition when cooled below 190 K. This phase transition is believed to be Martensitic, thus making it of particular interest for molecular machines. In this paper we

Deuterium Tracing to Interrogate Compartment-Specific NAD(P)H Metabolism in Cultured Mammalian Cells.

Esther W Lim et al.*Methods in molecular biology (Clifton, N.J.)*, 2088, 51-71 (2020-01-02)

Oxidation-reduction (redox) reactions are ubiquitous in biology and typically occur in specific subcellular compartments. In cells, the electron transfer between molecules and organelles is commonly facilitated by pyridine nucleotides such as nicotinamide adenine dinucleotide phosphate

(NADPH) and nicotinamide adenine dinucleotide

Quantifying Intermediary Metabolism and Lipogenesis in Cultured Mammalian Cells Using Stable Isotope Tracing and Mass Spectrometry.

Thekla Cordes et al.

Methods in molecular biology (Clifton, N.J.), 1978, 219-241 (2019-05-24)

Metabolism plays a central role in virtually all diseases, including diabetes, cancer, and neurodegeneration. Detailed analysis is required to identify the specific metabolic pathways dysregulated in the context of a given disease or biological perturbation. Measurement of metabolite concentrations can

Reproductive physiology of bonefishes (*Albula* spp.) across the Northwest Bahamas.

Sahar Mejri et al.

Fish physiology and biochemistry, 46(2), 699-712 (2019-12-19)

Bonefishes (*Albula* spp.) are classified within the superorder Elopomorpha, which is comprised of over 1000 species that share a unique leptocephalus larval stage. Bonefishes have a circum-tropical distribution, inhabiting inshore shallow water flats and gathering in presumptive nearshore pre-spawn aggregations

Substrate positioning controls the partition between halogenation and hydroxylation in the aliphatic halogenase, SyrB2.

Megan L Matthews et al.

Proceedings of the National Academy of Sciences of the United States of America, 106(42), 17723-17728 (2009-10-10)

The alpha-ketoglutarate-dependent hydroxylases and halogenases employ similar reaction mechanisms involving hydrogen-abstracting Fe(IV)-oxo (ferryl) intermediates. In the halogenases, the carboxylate residue from the His(2)(Asp/Glu)(1) "facial triad" of iron ligands found in the hydroxylases is replaced by alanine, and a halide ion

Afficher tous les articles scientifiques apparentés

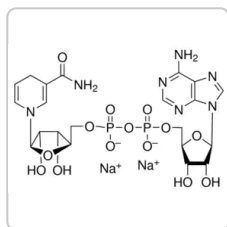
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Chromatograms

HPLC Analysis of Norvaline Enantiomers on Astec® CHIROBIOTIC® T

application for HPLC

PRODUITS CONSULTÉS RÉCEMMENT



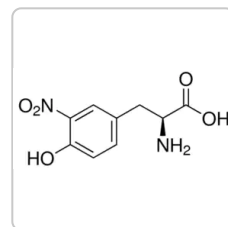
Sigma-Aldrich

N7410

β-Nicotinamide adenine dinucleotide, reduced disodium salt

~98%, pkg of 2 mg (per vial)

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

N7389

3-Nitro-L-tyrosine

crystalline

[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..

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