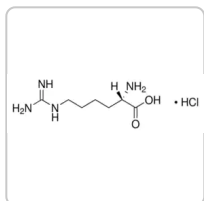


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (1)

Documents

↓ FDS

🔍 COO/COA

📄 Fiche des
caractéristiques

Plus de
documents »

H1007 ▶ Sigma-Aldrich.

L-Homoarginine hydrochloride

★★★★★ (0)

unnatural arginine analog

Synonyme(s):

(S)-2-Amino-6-guanidinohexanoic acid hydrochloride

Formule linéaire:

$\text{H}_2\text{NC(=NH)NH(CH}_2)_4\text{CH(NH}_2\text{)CO}_2\text{H} \cdot \text{HCl}$

Numéro CAS: **1483-01-8**

Poids moléculaire: 224.69

Beilstein: 4016621

Numéro EC: **216-045-6**

Numéro MDL: **MFCD00012622**

ID de substance PubChem: **24895420**

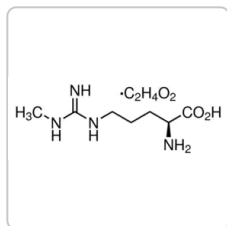
NACRES: NA.26

Référence	Conditionnement	Disponibilité	Prix	Quantité
H1007-5G	5 G	Only 1 left in stock (more on the way)	Détails... 519,00 €	− +

[Demander une commande en gros](#)

[Ajouter au panier](#)

PRODUITS RECOMMANDÉS

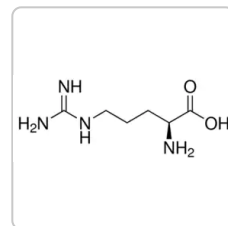


Sigma-Aldrich

M7033

N^G-Methyl-L-arginine acetate salt
≥98% (TLC)

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

A5006

L-Arginine
reagent grade, ≥98%

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Niveau de qualité 200

Essai/Dosage ≥98% (TLC)

Forme powder

Couleur white to off-white

Pf 213-215 °C (lit.)

Solubilité H₂O: soluble

application(s) peptide synthesis

SMILES string Cl[H].N[C@@H](CCCCNC(N)=N)C(O)=O

InChI 1S/C7H16N4O2.ClH/c8-5(6(12)13)3-1-2-4-11-7(9)10;/h5H,1-4,8H2,(H,12,13)(H4,9,10,11);1H/t5-;/m0./s1

InChI key YMKBVNVCKUYUDM-JEDNCBNOSA-N

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

Catégories apparentées

[Amino Acids](#)

[Amino Acids, Resins & Reagents for Peptide Synthesis](#)

DESCRIPTION

Application

L-Homoarginine may be used to create non-natural proteins for studies of post-translational protein modifications. Arginine residues are often located at the active centers of proteins and enzymes. Replacing these arginines with homoarginine can elucidate protein function and structural requirements. L-Homoarginine is used to study the mechanisms of nitric oxide production by cells via nitric oxide synthase(s). L-Homoarginine is used as a selective mammalian alkaline phosphatase isoenzyme inhibitor. The substitution of homoarginine for arginine or lysine renders proteins resistant to proteolysis by trypsin.

The substitution of homoarginine for arginine or lysine renders proteins resistant to proteolysis by trypsin. Arginine residues are often located at the active centers of proteins and enzymes. Replacing these arginines with homoarginine can elucidate protein function and structural requirements.

Conditionnement

5 g in poly bottle

Actions biochimiques/physiologiques

Homoarginine is an inhibitor of tissue nonspecific alkaline phosphatase (TNALP). It is also an inhibitor of cellular transport of arginine by a sodium-independent high affinity γ^+ transporter.

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

[FT-IR Condensed Phase](#)

[FT-NMR Spectra](#)

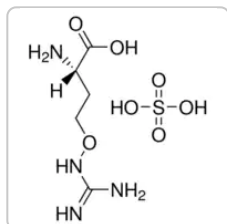
[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

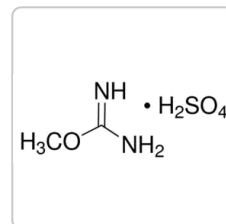


Sigma-Aldrich

C9758

L-Canavanine sulfate salt

≥99% (TLC), powder



Sigma-Aldrich

M53701

o-Methylisourea bisulfate

99%

ARTICLES REVUS PAR DES PAIRS

Homoarginine ameliorates diabetic nephropathy independent of nitric oxide synthase-3.

Michael D Wetzel et al.

Physiological reports, 9(5), e14766-e14766 (2021-03-14)

Recently we showed that homoarginine supplementation confers kidney protection in diabetic mouse models. In this study we tested whether the protective effect of homoarginine is nitric oxide synthase-3 (NOS3)-independent in diabetic nephropathy (DN). Experiments were conducted in NOS3 deficient (NOS3-/-

Positive correlation of airway resistance and serum asymmetric dimethylarginine (ADMA) in bronchial asthma patients lacking evidence for systemic inflammation.

Gabor Tajti et al.

Allergy, asthma, and clinical immunology : official journal of the Canadian Society of Allergy and Clinical Immunology, 14, 2-2 (2018-01-09)

Contribution of nitric-oxide (NO) pathway to the pathogenesis of bronchial asthma (asthma) is ambiguous as NO may confer both protective and detrimental effects depending on the NO synthase (NOS) isoforms, tissue compartments and underlying pathological conditions (e.g. systemic inflammation). Asymmetric

In vitro modulation of alkaline phosphatase activity of *Saccharomyces cerevisiae* grown in low or high phosphate medium.

J Fernandes et al.

Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas, 41(1), 41-46 (2007-12-22)

Our objective was to characterize the modulation of the activity of *Saccharomyces cerevisiae* alkaline phosphatases (ALPs) by classic inhibitors of ALP activity, cholesterol and steroid hormones, in order to identify catalytic similarities between yeast and mammalian ALPs. *S. cerevisiae* expresses

Homoarginine Supplementation Prevents Left Ventricular Dilatation and Preserves Systolic Function in a Model of Coronary Artery Disease.

Roman N Rodionov et al.

Background Homoarginine (hA rg) has been shown to be cardioprotective in a model of ischemic heart failure; however, the mechanism remains unknown. hA rg can inhibit tissue-nonspecific alkaline phosphatase (TNAP), an enzyme that promotes vascular calcification. We

Alkaline phosphatase retained in HepG2 hepatocarcinoma cells vs. alkaline phosphatase released to culture medium: difference of aberrant glycosylation.

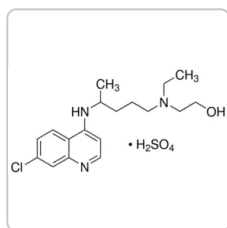
Azin Nowrouzi et al.

Biochemical and biophysical research communications, 330(2), 400-409 (2005-03-31)

Liver tissue is the source of 90% of serum alkaline phosphatase (AP). The serum levels and structures of tumor marker proteins change under many disease conditions as well as cancer. The study was aimed at determining the type of alkaline

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PRODUITS CONSULTÉS RÉCEMMENT



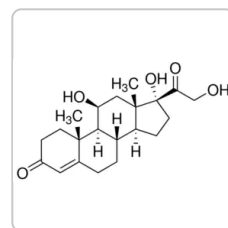
Sigma-Aldrich

H0915

Hydroxychloroquine sulfate

≥98% (HPLC), powder

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

H0888

Hydrocortisone

BioReagent, suitable for cell culture

[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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