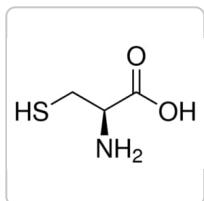


Saisir le nom du produit, le numéro de lot, etc.

[Toutes les photos](#) (1)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[Plus de documents](#) »**30089** ▶ **Sigma-Aldrich.**

L-Cysteine

★★★★★ (0)

BioUltra, ≥98.5% (RT)

Synonyme(s):

(R)-2-Amino-3-mercaptopropionic acid

Formule linéaire:

HSCH₂CH(NH₂)CO₂HNuméro CAS: **52-90-4**

Beilstein: 1721408

Numéro MDL: **MFCD00064306**ID de substance PubChem: **57648406**

Poids moléculaire: 121.16

Numéro EC: **200-158-2**

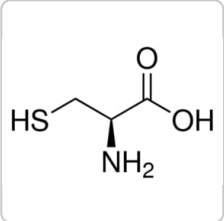
eCl@ss: 32160406

NACRES: NA.26

Référence	Conditionnement	Disponibilité	Prix	Quantité
30089-25G	25 G	✓ Disponible pour expédition le 03 octobre 2022 Détails...	69,30 €	− + 
30089-100G	100 G	✓ Only 2 left in stock (more on the way) Détails...	231,00 €	− + 
30089-500G	500 G	✓ Only 6 left in stock (more on the way) Détails...	843,00 €	− + 

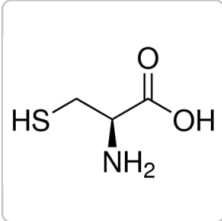
[Demander une commande en gros](#)[Ajouter au panier](#)

PRODUITS RECOMMANDÉS

 NC(CS)C(=O)O

Sigma-Aldrich
C7352
L-Cysteine
from non-animal source, BioReagent, suitable for cell culture, ≥98%

[Consulter le prix et la disponibilité](#)

 NC(CS)C(=O)O

Sigma-Aldrich
168149
L-Cysteine
97%

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Gamme de produits	BioUltra
Niveau de qualité	200
Essai/Dosage	≥98.5% (RT)
Forme	powder or crystals
Activité optique	$[\alpha]_{20/D} +8.0 \pm 0.5^\circ$, c = 5% in 5 M HCl
technique(s)	HPLC: suitable

Impuretés	insoluble matter, passes filter test ≤0.5% foreign amino acids
Résidus de calcination	≤0.05% (as SO ₄)
Perte	≤0.05% loss on drying, 20 °C (HV)
Couleur	white
Pf	240 °C (dec.) (lit.)
Solubilité	1 M HCl: 1 M at 20 °C, clear, colorless
Traces d'anions	chloride (Cl ⁻): ≤100 mg/kg sulfate (SO ₄ ²⁻): ≤50 mg/kg
Traces de cations	Al: ≤5 mg/kg As: ≤0.1 mg/kg Ba: ≤5 mg/kg Bi: ≤5 mg/kg Ca: ≤10 mg/kg Cd: ≤5 mg/kg Co: ≤5 mg/kg Cr: ≤5 mg/kg Cu: ≤5 mg/kg Fe: ≤5 mg/kg K: ≤50 mg/kg Li: ≤5 mg/kg Mg: ≤5 mg/kg Mn: ≤5 mg/kg Mo: ≤5 mg/kg

NH_4^+ : ≤ 500 mg/kgNa: ≤ 100 mg/kgNi: ≤ 5 mg/kgPb: ≤ 5 mg/kgSr: ≤ 5 mg/kgZn: ≤ 5 mg/kg λ

1 M in 1 M HCl

Absorption UV

 λ : 260 nm A_{max} : 1.5 λ : 280 nm A_{max} : 0.2

SMILES string

N[C@@H](CS)C(O)=O

InChI

1S/C3H7NO2S/c4-2(1-7)3(5)6/h2,7H,1,4H2,(H,5,6)/t2-/m0/s1

InChI key

XUJNEKJLAYXESH-REOHCLBHSA-N

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

Catégories apparentées

[Amino Acids](#)

DESCRIPTION

Application

L-Cysteine has been used in quenching of unreacted maleimide during antibody grafting. It has also been used in the preparation of nitrosocysteine stock solution, that has been employed to induce S-nitrosylation to achieve reversible cysteine modification.

Actions biochimiques/physiologiques

Cysteine is one of the functional amino acids that regulates metabolism for growth, reproduction, maintenance and immunity. Cysteine provides the disulfide linkage in proteins. It is directly associated with the transport of sulfur. Taurine, a metabolic product of cysteine acts as an antioxidant and controls the cellular redox state. Cysteine is involved in the formation of hydrogen sulfide that is utilized as a signaling molecule.

NMDA glutamatergic receptor agonist.

PRODUITS APPARENTÉS

Application

G005334

HPLC Analysis of Cysteine Enantiomers on Astec® CHIROBIOTIC® T (Formic Acid Mobile Phase Additive), application for HPLC

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

**Code de la classe de
stockage**

13 - Non Combustible Solids

WGK

WGK 1

**Équipement de protection
individuelle**

dust mask type N95 (US),
Eyeshields, Gloves

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

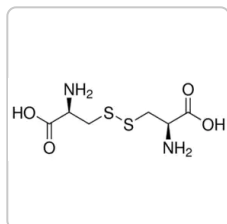
Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

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

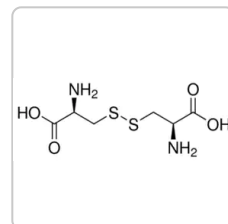
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

C8755**L-Cystine**

≥98% (TLC), crystalline

[Consulter le prix et la disponibilité](#)

Supelco

49603**L-Cystine**certified reference material, *TraceCERT*®[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Preparation of polyion complex micelles from poly(ethylene glycol)-block-polyions

Nuria Bayo-Puxan*Journal of Controlled Release : Official Journal of the Controlled Release Society, 156(2), 118-127 (2011)*

Resin-assisted enrichment of thiols as a general strategy for proteomic profiling of cysteine-based reversible modifications

Jia Guo*Nature Protocols, 9(1), 64-75 (2014)*

Amino acids: metabolism, functions, and nutrition

Guoyao Wu*Amino Acids, 37(1), 1-17 (2009)*

Increase in the protein-bound form of glutathione in human blood after the oral administration of glutathione.

Eun Young Park et al.

Journal of agricultural and food chemistry, 62(26), 6183-6189 (2014-06-01)

The present study examined the impact of the supplementation of glutathione (GSH), γ -L-glutamyl-L-cysteinyl-glycine, on human blood GSH levels. Healthy human volunteers were orally supplemented with GSH (50 mg/kg body weight). Venous blood was collected from the cubital vein before and

Targeting transcription regulation in cancer with a covalent CDK7 inhibitor.

Nicholas Kwiatkowski et al.

Nature, 511(7511), 616-620 (2014-07-22)

Tumour oncogenes include transcription factors that co-opt the general transcriptional machinery to sustain the oncogenic state, but direct pharmacological inhibition of transcription factors has so far proven difficult. However, the transcriptional machinery contains various enzymatic cofactors that can be targeted

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Dietary Antioxidants

Antioxidants protect biological systems from oxidative damage produced by oxygen-containing free radicals and from redoxactive transition metal ions such as iron, copper, and cadmium.

Protocoles

GC Analysis of Amino Acids (as TBDMS Derivatives) on SLB®-5ms (20 m x 0.18 mm I.D., 0.18 μ m), Fast GC Analysis

Separation of L-Alanine; Glycine; L-Valine; L-Leucine; L-Isoleucine; L-Proline; L-Methionine; L-Serine; L-Threonine; L-Phenylalanine; L-Aspartic acid; L-

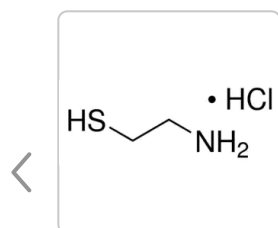
4-Hydroxyproline; L-Cysteine; L-Glutamic acid; L-Asparagine; L-Lysine; L-Glutamine; L-Histidine; L-Tyrosine; L-Tryptophan; L-Cystine

Chromatograms

HPLC Analysis of Cysteine Enantiomers on Astec® CHIROBIOTIC® T (Formic Acid Mobile Phase Additive)

application for HPLC

PRODUITS CONSULTÉS RÉCEMMENT

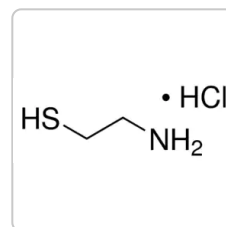


Sigma-Aldrich

30080

Cysteamine hydrochloride

≥97.0% (RT)



Sigma-Aldrich

30078

Cysteamine hydrochloride

BioXtra

[Consulter le prix et la disponibilité](#)

[Consulter le prix et la disponibilité](#)

Évaluations

★★★★★

[Soyez le premier à donner votre avis sur ce produit](#)

Questions