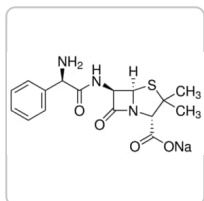


Saisir le nom du produit, le numéro de lot, etc.

[Toutes les photos \(1\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**A0166** ▶ **Sigma-Aldrich.**

Ampicillin sodium salt

★★★★★ (0)

powder or crystals, BioReagent, suitable for cell culture

Synonyme(s):

D-(-)-α-Aminobenzylpenicillin sodium salt

Empirical Formula (Hill Notation):

C₁₆H₁₈N₃NaO₄SNuméro CAS: **69-52-3**

Beilstein: 4119211

Numéro MDL: **MFCD00064313**

NACRES: NA.76

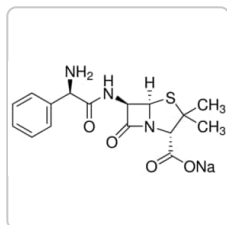
Poids moléculaire: 371.39

Numéro EC: **200-708-1**ID de substance PubChem: **24890405**

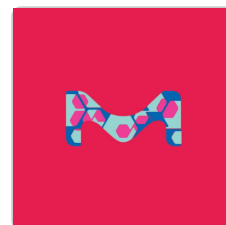
Référence	Conditionnement	Disponibilité	Prix	Quantité
A0166-5G	5 G	✓ Disponible pour expédition le 03 octobre 2022 Détails...	125,00 €	- + i
A0166-25G	25 G	✓ Only 4 left in stock (more on the way) Détails...	499,00 €	- + i
A0166-100G	100 G	✓ Only 2 left in stock (more on the way) Détails...	1 180,00 €	- + i

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

A9518**Ampicillin sodium salt**[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

A5354**Ampicillin**

Ready Made Solution, 100 mg/mL, 0.2 µm filtered

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique

synthetic

Niveau de qualité

200

Gamme de produits

BioReagent

Forme

powder or crystals

Puissance

845-988 µg per mg (C₁₆H₁₈N₃O₄S, Calculated on the anhydrous basis)

technique(s)

cell culture | mammalian: suitable

Couleur	white to off-white
Pf	215 °C (dec.) (lit.)
Solubilité	H ₂ O: 50 mg/mL (Stock solutions should be stored at –20 °C.)
Spectre d'activité de l'antibiotique	Gram-negative bacteria Gram-positive bacteria
Mode d'action	cell wall synthesis interferes
Temp. de stockage	2-8°C
SMILES string	[Na+].CC1(C)SC2[C@H](NC(=O)[C@H](N)c3ccccc3)C(=O)N2[C@H]1C([O-])=O
InChI	1S/C16H19N3O4S.Na/c1-16(2)11(15(22)23)19-13(21)10(14(19)24-16)18-12(20)9(17)8-6-4-3-5-7-8;/h3-7,9-11,14H,17H2,1-2H3,(H,18,20)(H,22,23);/q;+1/p-1/t9-,10-,11+,14-;/m1./s1
InChI key	KLOHDWPABZXLGI-YWUHCJSESA-M

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

Catégories apparentées

[Antibiotics](#)

DESCRIPTION

Description générale

Chemical structure: β -lactam

Application

Ampicillin is a semi-synthetic derivative of penicillin that functions as a broad-spectrum antibiotic. It has been used to study antibiotic resistance and penetration limitations, the synergy between multiple antibiotics, certain bloodstream infections, and has been used to develop PCR assays to detect resistance genes in cerebrospinal fluid.

Recommended for antibacterial use in cell culture media at 100 mg/L.

Recommended for use in ampicillin-resistance studies at 20-125 μ g/ml.

Actions biochimiques/physiologiques

Mode of Action: This is a β -lactam antibiotic that inhibits bacterial cell-wall synthesis by inactivating transpeptidases on the inner surface of the bacterial cell membrane.

Mode of Resistance: Administration with β -lactamase cleaves the β -lactam ring of Ampicillin and inactivates it.

Antimicrobial Spectrum: Includes both gram-positive (similar to benzylpenicillin) and gram-negative bacteria (similar to tetracyclines and chloramphenicol).

Conditionnement

5g, 25g, 100g

Attention

This product has been reported stable as supplied at 25°C at 43% and 81% relative humidity for six weeks. It is stable at 37°C for three days. Additional studies have shown that the stability of Ampicillin in solution is a function of pH, temperature and the identity of the buffer. Its activity is quickly lost when stored above pH 7. Optimal storage conditions are suggested as 2-8°C, and pH 3.8-5 where its activity was retained at 90%+ for a week.

Notes préparatoires

Ampicillin is reported as slightly soluble in water, practically insoluble in alcohol, chloroform, ether and fixed oils but soluble in dilute acids or bases. The solution should not be autoclaved; a stock solution should be sterilized through filtration and stored frozen, where it will be stable for months.

Autres remarques

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H317 - H334

Conseils de prudence

P261 - P280 - P342 + P311

Classification des risques

Resp. Sens. 1 - Skin Sens. 1

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

dust mask type N95 (US),
Eyeshields, Faceshields,
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

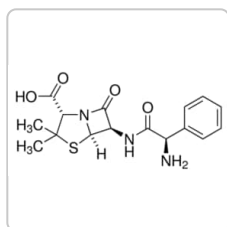
Fiche D'informations Produit

Product Information Sheet - A0166

Plus De Documents

[Spectra - ATR-IR](#)[Spectra for FT-IR Raman](#)[Structure Search](#)[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

**BP785****Anhydrous ampicillin**

British Pharmacopoeia (BP) Reference Standard

[Consulter le prix et la disponibilité](#)

Millipore

171257**Ampicillin, Sodium Salt, Sterile-Filtered Aqueous Solution, Cell Culture Tested - CAS 6...**
sterile; sterile-filtered, suitable for cell culture[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

[The BvgS PAS Domain, an Independent Sensory Perception Module in the Bordetella bronchiseptica BvgAS Phosphorelay.](#)

M Ashley Sobran et al.*Journal of bacteriology*, 201(17) (2019-06-27)

To detect and respond to the diverse environments they encounter, bacteria often use two-component regulatory systems (TCS) to coordinate essential cellular processes required for survival. In pathogenic *Bordetella* species, the BvgAS TCS regulates expression of hundreds of genes, including those

[Circadian Entrainment in Arabidopsis by the Sugar-Responsive Transcription Factor bZIP63.](#)

Alexander Frank et al.

Current biology : CB, 28(16), 2597-2606 (2018-08-07)

Synchronization of circadian clocks to the day-night cycle ensures the correct timing of biological events. This entrainment process is essential to ensure that the phase of the circadian oscillator is synchronized with daily events within the environment [1], to permit

Citicoline Protects Auditory Hair Cells Against Neomycin-Induced Damage.

Zhenhua Zhong et al.

Frontiers in cell and developmental biology, 8, 712-712 (2020-09-29)

Aminoglycoside-induced hair cell (HC) loss is one of the most important causes of hearing loss. After entering the inner ear, aminoglycosides induce the production of high levels of reactive oxygen species (ROS) that subsequently activate apoptosis in HCs. Citicoline, a

Targeted Delivery of the Mitochondrial Target Domain of Noxa to Tumor Tissue via Synthetic Secretion System in E. coli.

Daejin Lim et al.

Frontiers in bioengineering and biotechnology, 8, 840-840 (2020-08-09)

Targeted delivery of drugs is a key aspect of the successful treatment of serious conditions such as tumors. In the pursuit of accurate delivery with high specificity and low size limit for peptide drugs, a synthetic type 3 secretion system

Structural Basis of Transcription Inhibition by Fidaxomicin (Lipiarmycin A3).

Wei Lin et al.

Molecular cell, 70(1), 60-71 (2018-04-03)

Fidaxomicin is an antibacterial drug in clinical use for treatment of Clostridium difficile diarrhea. The active ingredient of fidaxomicin, lipiarmycin A3 (Lpm), functions by inhibiting bacterial RNA polymerase (RNAP). Here we report a cryo-EM structure of Mycobacterium tuberculosis RNAP holoenzyme in

Afficher tous les articles scientifiques apparentés

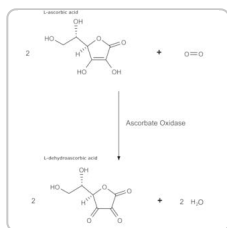
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

USP HPLC Analysis of Ampicillin Sodium on Ascentis® Express C18

USP HPLC Analysis of Ampicillin Sodium on Ascentis® Express C18

PRODUITS CONSULTÉS RÉCEMMENT



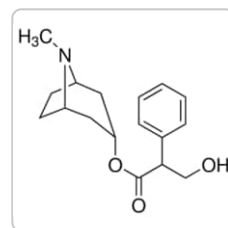
Sigma-Aldrich

A0157

Ascorbate Oxidase from *Cucurbita* sp.

lyophilized powder, 1,000-3,000 units/mg protein

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

A0132

Atropine

≥99% (TLC), powder

[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](#)

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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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