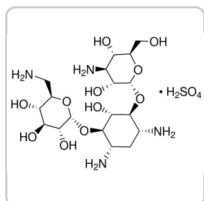


Saisir le nom du produit, le numéro de lot, etc.

[Toutes les photos \(5\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**K4000** ▶ **Sigma-Aldrich.**

Kanamycin sulfate from *Streptomyces kanamyceticus*

★★★★★ (0)

Animal Component-free

Synonyme(s):

Kanamycin A, Kanamycin sulfate salt

Empirical Formula (Hill Notation):

 $C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$ Numéro CAS: **25389-94-0**

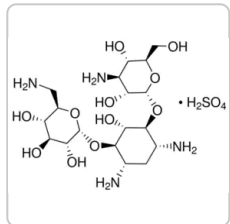
Poids moléculaire: 582.58

Numéro EC: **246-933-9**Numéro MDL: **MFCD00070253**ID de substance PubChem: **24896236**

NACRES: NA.76

Référence	Conditionnement	Disponibilité	Prix	Quantité
K4000-1G	1 G	✓ Only 5 left in stock (more on the way) Détails...	37,80 €	- + i
K4000-5G	5 G	✓ Disponible pour expédition le 11 octobre 2022 Détails...	139,00 €	- + i
K4000-25G	25 G	✓ Disponible pour expédition le 11 octobre 2022 Détails...	439,00 €	- + i
K4000-50G	50 G	✓ Only 1 left in stock (more on the way) Détails...	798,00 €	- + i

PRODUITS RECOMMANDÉS

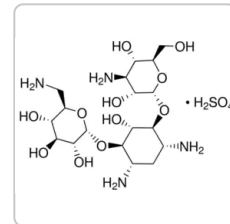


Sigma-Aldrich

60615

Kanamycin sulfate

mixture of Kanamycin A (main component) and Kanamycin B and C

[Consulter le prix et la disponibilité](#)


Sigma-Aldrich

K1377

Kanamycin sulfate from *Streptomyces kanamyceticus*

powder, BioReagent, suitable for cell culture, suitable for plant cell culture

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique *Streptomyces kanamyceticus*

Niveau de qualité 300

Forme powder

Puissance $\geq 750 \mu\text{g}$ per mg (dry basis)

Impuretés $\leq 5\%$ Kanamycin B

Couleur	white to off-white
Solubilité	H ₂ O: 50 mg/mL, clear, colorless to faintly yellow
Spectre d'activité de l'antibiotique	Gram-negative bacteria Gram-positive bacteria mycobacteria mycoplasma
Mode d'action	protein synthesis interferes
SMILES string	<chem>OS(O)(=O)=O.NC[C@H]1O[C@H](O[C@@H]2[C@@H](N)C[C@@H](N)[C@H](O[C@H]3O[C@H](CO)[C@@H](O)[C@H](N)[C@H]3O)[C@H]2O)[C@H](O)[C@@H](O)[C@@H]1O</chem>
InChI	1S/C18H36N4O11.H2O4S/c19-2-6-10(25)12(27)13(28)18(30-6)33-16-5(21)1-4(20)15(14(16)29)32-17-11(26)8(22)9(24)7(3-23)31-17;1-5(2,3)4/h4-18,23-29H,1-3,19-22H2;(H2,1,2,3,4)/t4-,5+,6-,7-,8+,9-,10-,11-,12+,13-,14-,15+,16-,17-,18-;/m1./s1
InChI key	OOYGSFOGFJDDHP-KMCOLRRFSA-N

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

Catégories apparentées

[Antibiotics](#)

DESCRIPTION

Description générale

Chemical structure: aminoglycoside

Conditionnement

1, 5, 25, 50 g in poly bottle

Application

Kanamycin sulfate is a broad spectrum aminoglycoside-antibiotic derived from *Streptomyces kanamyceticus*. It is used as an additive in culture media for the isolation of group D streptococci on Kanamycin Esculin Azide Agar and for selection of transformed plant cells containing the neomycin phosphotransferase on a kanamycin-medium. Kanamycin sulfate can also be used as a selection agent for cells transformed with kanamycin B resistance gene. It is recommended for use in cell culture applications at 100 µg/mL.

Actions biochimiques/physiologiques

Mode of Action: The product acts by binding to the 70S ribosomal subunit, inhibiting translocation and eliciting miscoding.

Mode of Resistance: Aminoglycoside-modifying enzymes (including acetyltransferase, phosphotransferase, nucleotidyltransferase) can alter this antibiotic, preventing its interaction with ribosomes.

Antimicrobial spectrum: Kanamycin sulfate is effective against gram-negative and gram-positive bacteria, and mycoplasma.

Attention

Solutions are stable at 37°C for approximately 5 days. Aqueous stock solutions can be stored at 2-8°C for long term storage.

Notes préparatoires

Kanamycin sulfate is soluble in water at 50 mg/mL, yielding a clear solution. It is practically insoluble in alcohol, acetone, chloroform, ether and ethyl acetate. A 1% solution in water has a pH of 6.5 to 8.5. Sterile solutions can be prepared by a sterile filtration, through a .2µm filter.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H360D

Conseils de prudence

P201 - P202 - P280 - P308 +
P313 - P405 - P501

Classification des risques

Repr. 1B

Code de la classe de stockage

6.1C - Combustible, acute
toxic Cat.3 / toxic compounds
or compounds which causing
chronic effects

WGK

WGK 2

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)

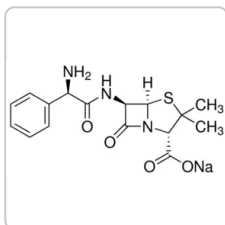
Rechercher

Plus De Documents

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

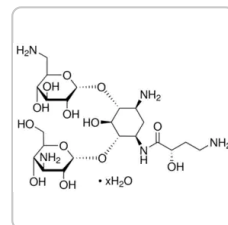


Sigma-Aldrich

A9518

Ampicillin sodium salt

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

A3650

Amikacin hydrate
aminoglycoside antibiotic

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Genomic Repeats Categorize Genes with Distinct Functions for Orchestrated Regulation.

J Yuyang Lu et al.

Cell reports, 30(10), 3296-3311 (2020-03-12)

Repetitive elements are abundantly distributed in mammalian genomes. Here, we reveal a striking association between repeat subtypes and gene function. SINE, L1, and low-complexity repeats demarcate distinct functional categories of genes and may dictate the time and level of gene

Structure and Assembly of the Enterohemorrhagic Escherichia coli Type 4 Pilus.

Benjamin Bardiaux et al.

Structure (London, England : 1993), 27(7), 1082-1093 (2019-05-06)

Bacterial type 4a pili are dynamic surface filaments that promote bacterial adherence, motility, and macromolecular transport. Their genes are highly conserved among enterobacteria and their expression in enterohemorrhagic Escherichia coli (EHEC) promotes adhesion to intestinal epithelia and pro-inflammatory signaling. To

Highly parallel lab evolution reveals that epistasis can curb the evolution of antibiotic resistance.

Marta Lukačšínová et al.

Nature communications, 11(1), 3105-3105 (2020-06-21)

Genetic perturbations that affect bacterial resistance to antibiotics have been characterized genome-wide, but how do such perturbations interact with subsequent evolutionary adaptation to the drug? Here, we show that strong epistasis between resistance mutations and systematically identified genes can be

Deletions in guaBA and htrA but not clpX or rfaL constitute a live-attenuated vaccine strain of Salmonella Newport to protect against serogroup C2-C3 Salmonella in mice.

Fabien J Fuche et al.

Human vaccines & immunotherapeutics, 15(6), 1427-1435 (2018-06-22)

Non-typhoidal Salmonella (NTS) are a leading cause of foodborne infections worldwide, and serogroups B, C1, C2-C3 and D are the most common serogroups associated with human disease. While live vaccine candidates that protect against S. Typhimurium (serogroup B) and S.

Genome analysis of *Paenibacillus polymyxa* A18 gives insights into the features associated with its adaptation to the termite gut environment.

Nandita Pasari et al.

Scientific reports, 9(1), 6091-6091 (2019-04-17)

Paenibacillus polymyxa A18 was isolated from termite gut and was identified as a potential cellulase and hemicellulase producer in our previous study. Considering that members belonging to genus *Paenibacillus* are mostly free-living in soil, we investigated here the essential genetic

[Afficher tous les articles scientifiques apparentés](#)

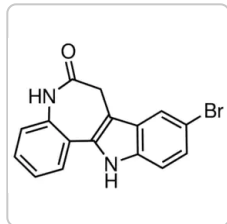
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Aminoglycoside Analysis in Pork Muscle using Molecularly Imprinted Polymer Cleanup and LC/MS/MS Detection

Extraction and quantitative analysis of aminoglycosides in porcine tissue, using molecular imprinted polymer solid phase extraction followed by LC-MS/MS.

PRODUITS CONSULTÉS RÉCEMMENT

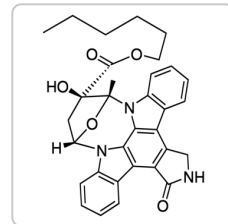


Sigma-Aldrich

K3888

Kenpauillone

≥98%



Sigma-Aldrich

K3761

KT 5720

≥98% (HPLC), powder

[Consulter le prix et la disponibilité](#)[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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