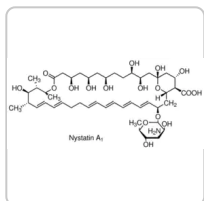


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (4)

Documents

FDS

COO/COA

 Fiche des
caractéristiques

Plus de
documents »

N6261 ► Sigma-Aldrich.

Nystatin

★★★★★ (0)

powder, BioReagent, suitable for cell culture

Synonyme(s):

Fungicidin, Mycostatin

Numéro CAS:

1400-61-9

Numéro EC:

215-749-0

Numéro MDL:

MFCD25541651

ID de substance PubChem:

24897778

NACRES:

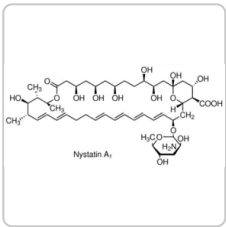
NA.76

Référence	Conditionnement	Disponibilité	Prix	Quantité
N6261-500KU	500000 UNITS	Only 4 left in stock (more on the way) Détails...	47,30 €	– +
N6261-5MU	5000000 UNITS	Only 3 left in stock (more on the way) Détails...	148,00 €	– +
N6261-25MU	25000000 UNITS	Only 1 left in stock (more on the way) Détails...	585,00 €	– +

Demander une commande en gros

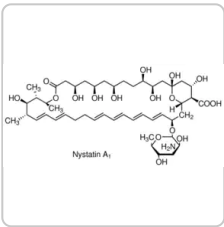
Ajouter au panier

PRODUITS RECOMMANDÉS



Sigma-Aldrich
N4014
Nystatin
powder, γ-irradiated, BioXtra, suitable for cell culture

Consulter le prix et la disponibilité



Sigma-Aldrich
N3503
Nystatin
≥4,400 USP units/mg

Consulter le prix et la disponibilité

PROPRIÉTÉS

Gamme de produits	BioReagent
Niveau de qualité	200
Forme	powder
Puissance	≥4,400 USP units per mg
technique(s)	cell culture mammalian: suitable
Solubilité	H ₂ O: insoluble
Spectre d'activité de l'antibiotique	fungi yeast

Mode d'action	cell membrane interferences
Temp. de stockage	-20°C
SMILES string	<chem>O[C@@H]([C@H](C)[C@H](C)O1)[C@@H](C)/C=C/C=C/CC/C=C/C=C/C=C/C=C/[C@H](O[C@@H]2O[C@H](C)[C@@H](O)[C@H](N)[C@@H]2O)C[C@@]3([H])[C@H](C(O)=O)[C@@H](O)C[C@](O)(O3)C[C@@H](O)[C@H](O)CC[C@@H](O)C[C@@H](O)C[C@@H](O)CC1=O</chem>
InChI	1S/C47H75NO17/c1-27-17-15-13-11-9-7-5-6-8-10-12-14-16-18-34(64-46-44(58)41(48)43(57)30(4)63-46)24-38-40(45(59)60)37(54)26-47(61,65-38)25-36(53)35(52)20-19-31(49)21-32(50)22-33(51)23-39(55)62-29(3)28(2)42(27)56/h5-6,8,10-18,27-38,40-44,46,49-54,56-58,61H,7,9,19-26,48H2,1-4H3,(H,59,60)/b6-5+,10-8+,13-11+,14-12+,17-15+,18-16+/t27-,28+,29-,30+,31+,32+,33+,34-,35+,36+,37-,38-,40+,41-,42+,43+,44-,46-,47+/m0/s1
InChI key	VQOXZBDYSJBXMA-QEKUPDCNSA-N

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

Catégories apparentées

Antibiotics

DESCRIPTION

Description générale

Chemical structure: polyene

Nystatin is a polyene macrolide antifungal, which is a polyketide produced by *Streptomyces noursei* ATCC 11455. This antibiotic contains a macrolactone ring, and its natural synthesis is initiated with acetyl CoA, which is followed by the condensation of three

ethylmalonyl-CoA and 15 malonyl-CoA extender moieties.

Application

Nystatin has been used -

- for the treatment of human macrophage cell line U937, to study the effect of nystatin on the production of IL-8 (interleukin 8) by silver nanoparticle-treated U937 cell line
- to determine its effect on intracellular accumulation of OxLDL (oxidized low density lipoprotein) mediated by SR-BI (scavenger receptor class B type I) in COS-7 cell line
- as a lipid raft modulator on mice macrophages to study the relationship between increased number of lipid rafts and the heightened response of TNF- α (tumor necrosis factor)

Nystatin is a polyene antibiotic. Its uses include preventing cell culture contamination and inducing interleukin (IL)-1, IL-8, and tumor necrosis factor α secretion in TLR2-expressing THP1 cells. This product is recommended for use in cell culture applications at 50 mg/L.

Conditionnement

500000, 5000000, 25000000 units in poly bottle

Actions biochimiques/physiologiques

Studies in severely burned patients have shown that treatment with nystatin powder is effective for the treatment of massive angioinvasive fungal infection, without side-effects on wound healing.

Mode of Action: Nystatin acts by binding to ergosterols in fungal cell membranes, increasing permeability of the membrane, and creating nystatin/ergosterol based ion channels. It also functions as a lipid raft-inhibiting reagent and as membrane associated cholesterol.

Antimicrobial spectrum: Nystatin acts against fungi, yeasts and molds.

Attention

Nystatin in tissue culture media is stable at 37°C for three days. It is also stable in moderately alkaline media. Solutions and aqueous suspensions begin to lose activity soon after preparation, with heat, light, and oxygen accelerating the decomposition. Aqueous suspensions are stable for 10 minutes when heating to 100°C at pH 7.

Notes préparatoires

Nystatin is soluble at 28°C in methanol (11.2 mg/mL), ethanol (1.2 mg/mL), carbon tetrachloride (1.23 mg/mL), chloroform (0.48 mg/mL), benzene (0.28 mg/mL), and ethylene glycol (8.75 mg/mL). It is also soluble in DMSO at 5 mg/mL and freely soluble in DMF and formamide. It is not recommended to autoclave or sterile filter solutions of Nystatin. Nystatin is also effective as a suspension, stable at 37°C for 3 days. Prepare 50 mg/mL stock suspensions in water and store at -20°C.

Autres remarques

Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Air and light sensitive. Keep in a dry place.

PRODUITS APPARENTÉS

Produit Apparenté

N1638

Nystatin Suspension, suspension, 10,000 unit/mL in DPBS, BioReagent, suitable for cell culture

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 2

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

Comment saisir un numéro de lot (COO)

Rechercher

Fiche D'informations Produit

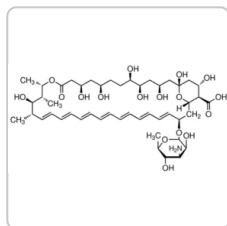
[Product Information Sheet - N6261](#)

Plus De Documents

[Structure Search](#)

[FDS](#)

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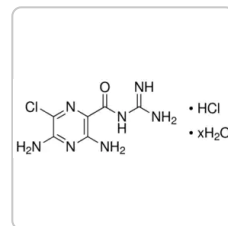
Sigma-Aldrich

A2942

Amphotericin B solution

250 µg/mL in deionized water, 0.1 µm filtered,
BioReagent, suitable for cell culture

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Sigma-Aldrich

A7410

Amiloride hydrochloride hydrate

≥98% (HPLC), powder

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ARTICLES REVUS PAR DES PAIRS

Phagocytosis and endocytosis of silver nanoparticles induce interleukin-8 production in human macrophages.

Seungjae Kim et al.

Yonsei medical journal, 53(3), 654-657 (2012-04-06)

Phagocytosis or endocytosis by macrophages is critical to the uptake of fine particles, including nanoparticles, in order to initiate toxic effects in cells. Here, our data enhance the understanding of the process of internalization of silver nanoparticles by macrophages. When

Topical nystatin powder in severe burns: a new treatment for angioinvasive fungal infections refractory to other topical and systemic agents.

J P Barret et al.

Burns : journal of the International Society for Burn Injuries, 25(6), 505-508 (1999-09-25)

Angioinvasive fungal infections have a significant morbidity and mortality in the immunocompromised host. Massive burns produce a profound derangement in cellular immunity along with a loss of cutaneous barrier function. Treatment of fungal burn wound infections poses a difficult therapeutic

Biosynthesis of the polyene antifungal antibiotic nystatin in *Streptomyces noursei* ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway.

T Brautaset et al.

Chemistry & biology, 7(6), 395-403 (2000-06-30)

The polyene macrolide antibiotic nystatin produced by *Streptomyces noursei* ATCC 11455 is an important antifungal agent. The nystatin molecule contains a polyketide moiety represented by a 38-membered macrolactone ring to which the deoxysugar mycosamine is attached. Molecular cloning and characterization

Distinct mechanisms for OxLDL uptake and cellular trafficking by class B scavenger receptors CD36 and SR-BI.

Bing Sun et al.

Journal of lipid research, 48(12), 2560-2570 (2007-09-19)

Modified forms of LDL, including oxidized low density lipoprotein (OxLDL), contribute to macrophage lipid accumulation in the vessel wall. Despite the pathophysiological importance of uptake pathways for OxLDL, the molecular details of OxLDL endocytosis by macrophages are not

well understood.

Increased lipid rafts and accelerated lipopolysaccharide-induced tumor necrosis factor-alpha secretion in Abca1-deficient macrophages.

Masahiro Koseki et al.

Journal of lipid research, 48(2), 299-306 (2006-11-03)

Lipid rafts on the cell surface are believed to be very important as platforms for various cellular functions. The aim of this study was to know whether defective lipid efflux may influence lipid rafts on the cell surface and their

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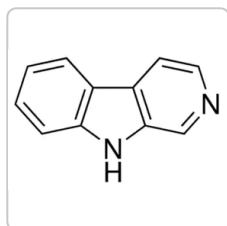
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Articles

Antifungals Reagents in Cell Culture

Prevent fungal, yeast, and mold contamination in cell cultures. Discover the best antifungal agent for your cultures with the extensive Sigma® antifungal collection.

PRODUITS CONSULTÉS RÉCEMMENT

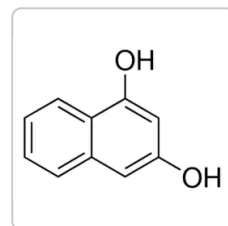


Sigma-Aldrich

N6252

Norharmane

crystalline



Sigma-Aldrich

N6250

1,3-Dihydroxynaphthalene

≥99%, crystalline

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