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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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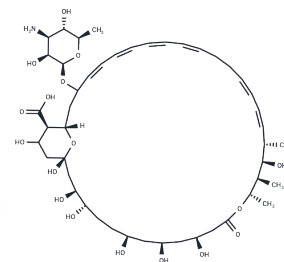
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Nystatin

Chemical Properties

CAS No. :	1400-61-9
Formula:	C ₄₇ H ₇₅ NO ₁₇
Molecular Weight:	926.1
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Nystatin (Fungicidin) is a topical and oral antifungal agent with activity against many species of yeast and candida albicans, which is used largely to treat skin and oropharyngeal candidiasis.
Targets(IC50)	Apoptosis, Antibiotic, Antifungal
In vitro	<p>METHODS: Hippocampal neurons were treated with Nystatin (2.5-25 μM) for 30 min and cell morphology was examined.</p> <p>RESULTS: Acute incubation with different concentrations of Nystatin increased the growth cone size of hippocampal neurons. [1]</p> <p>METHODS: CHO cells were treated with Nystatin (100-300 μmol/L) for 10-60 min, and cell viability was measured by MST-1 assay.</p> <p>RESULTS: Cell viability studies after Nystatin application showed significant concentration- and time-dependent effects. At Nystatin concentrations equal to 100 μmol/L, the percentage of viable cells was significantly higher compared to higher concentrations. [2]</p>
In vivo	Nystatin combined with endostatin selectively enhances endostatin uptake and biodistribution in tumor blood vessels and tumor tissues rather than in normal tissues of tumor-bearing mice, ultimately leading to elevated antiangiogenic and antitumor efficacies of endostatin in vivo[3]. Liposomal Nystatin, at doses as low as 2 mg/kg of body weight/day, protects neutropenic mice against Aspergillus-induced death in a statistically significant manner at the 50-day time point compared to either the no-treatment, the saline, or the empty-liposome group[4].

Solubility Information

Solubility	DMSO: 50 mg/mL (53.99 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0798 mL	5.399 mL	10.798 mL
5 mM	0.216 mL	1.0798 mL	2.1596 mL
10 mM	0.108 mL	0.5399 mL	1.0798 mL
50 mM	0.0216 mL	0.108 mL	0.216 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Roselló-Busquets C, et al. Nystatin Regulates Axonal Extension and Regeneration by Modifying the Levels of Nitric Oxide. *Front Mol Neurosci.* 2020 Apr 3;13:56.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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