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- Mindermengenzuschlag
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- Expressversand

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Tunicamycin

Autophagy inducer
Catalog No. SIH-397



Discovery through partnership | Excellence through quality

Overview

Product Name

Tunicamycin

Description

Autophagy inducer

Purity

>98% (HPLC) as a mixture of tunicamycin A, B, C and D

CAS No.

11089-65-9

Molecular Formula

C₁₈H₃₂N₂O₁₁

Molecular Weight

844.95

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

Soluble in DMSO (>10 mg/ml) or ethanol (5 mg/ml; warm).

Source

Isolated from *Streptomyces lysosuperficus*

Appearance

White solid.

SMILES

[C@@H]2(O[C@H](O[C@H]1O[C@@H]([C@@H](O)[C@H](O)[C@H]1NC(=O)C)CO)[C@H](NC(=O)C=CCC(C)[C@@H](O)[C@H]2O)CC(O)[C@H]4O[C@@H]

Safety Phrases

Classification: D1A- Very Toxic Material Causing Immediate and Serious Toxic Effects, Highly toxic by ingestion, D2A- Very Toxic Material Causing Other Toxic Effects, Teratogen- Reproductive hazard

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Hazard statements:

H300- Fatal if swallowed.

Precautionary statements:

P264- Wash hands thoroughly after handling.

P301 + P310- IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

Cite This Product

Tunicamycin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-397)

Biological Description

Alternative Names

Tunicamycin from *Streptomyces* sp.

Research Areas

Cancer, Autophagy

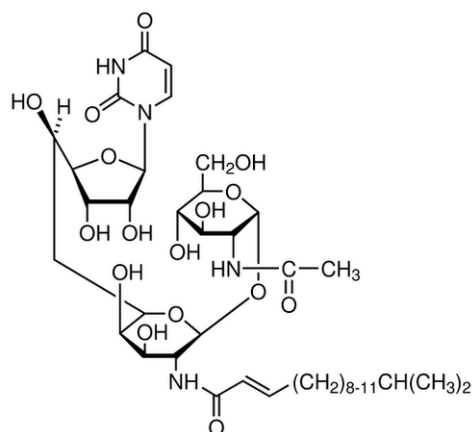
Scientific Background

As a nucleoside antibiotic, Tunicamycin blocks the formation of protein N-glycosidic linkages by inhibiting the transfer of N-acetylglucosamine 1-phosphate to dolichol monophosphate. This causes an induction of glucose-regulated protein 78 (GRP78) mRNA expression, which in turn increases ER stress and subsequently induces autophagy.

References

1. Unal E.S., et al. (2008) *Biochim Biophys Acta*. 1778(6): 1407-14.
2. Ding W.X., et al. (2007) *J Biol Chem*. 282(7): 4702-10.
3. Ishii S., et al. (1987) *J Neurochem*. 49(5): 1606-12.
4. Zhang J., et al. (2013) *J Surg Res*. 183(2): 929-35.

Product Images



Chemical structure of Tunicamycin (SIH-397), a Autophagy inducer. CAS #: 11089-65-9. Molecular Formula: C₃₉H₆₄N₄O₁₆. Molecular Weight: 844.95 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.