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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Valinomycin

Apoptosis Inducer
Catalog No. SIH-230



Discovery through partnership | Excellence through quality

Overview

Product Name

Valinomycin

Description

Apoptosis Inducer

Purity

>98%

CAS No.

2001-95-8

Molecular Formula

C₁₁H₁₁N₁₀O₁₁

Molecular Weight

1111.32

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

Soluble to 25 mM in DMSO
and 25 mM in ethanol.

Source

Synthetic

Appearance

White Solid

SMILES

C[C@H]1C(=O)N[C@H](C(=O)O[C@@H](C(=O)N[C@@H](C(=O)O[C@H](C(=O)N[C@H](C(=O)O[C@@H](C(=O)N[C@@H](C(=O)O[C@H](C(=O)N[C@H](C(=O)O[C@@H](C(=O)O1)C(C)C)C(C)C)C(C)C)C(C)C)C(C)C)C(C)C)C(C)C

InChI

InChI=1S/C54H90N6O18/c1-22(2)34-49(67)73-31(19)43(61)55-38(26(9)10)53(71)77-41(29(15)16)47(65)59-36(24(5)6)51(69)75-33(21)45(

InChIKey

FCFNRCROJUBPLU-UYBNATROSA-N

Safety Phrases

Classification: Very Toxic. May be fatal if inhaled, swallowed or absorbed through skin.

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

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Risk Phrases:

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R68 - Possible risk of irreversible effects

Hazard Phrases:

H300-H310

Precautionary Phrases:

P264-P280-P302 + P350-P310

Cite This Product

Valinomycin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-230)

Biological Description

Alternative Names

(3R,6R,9S,12S,15R,18R,21S,24S,27R,30R,33S,36S)-3,6,9,15,18,21,27,30,33-Nonaisopropyl-12,24,36-trimethyl-1,7,13,19,25,31-hexaoxa-4,10,16,22,28,34-hexaazacyclohexatriacontane-2,5,8,11,14,17,20,23,26,29, 32,35-dodecone

Research Areas

Cancer, Apoptosis

PubChem ID

5649

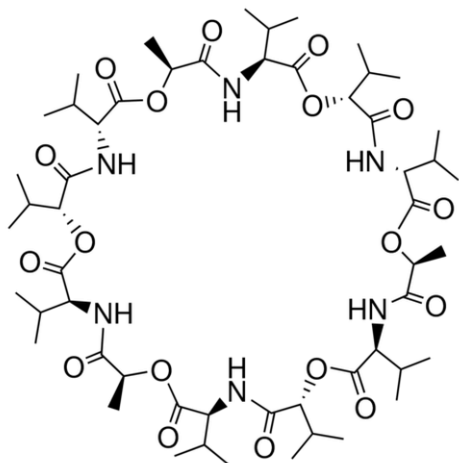
Scientific Background

Valinomycin is a dodecadepsipeptide, and a member of a group of natural neutral ionophores. It is highly selective for potassium ions within the cell membrane (1). It functions as a potassium-specific transporter and facilitates the movement of potassium ions through lipid membranes down an electrochemical potential gradient (2).

References

1. Lars R., Jenkins A.T.A. (2007) Bioelectrochem. 70(2): 387-393.
 2. Cammann K. (1985) Top Curr Chem. 128: 219-258.
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Product Images



Chemical structure of Valinomycin (SIH-230), a Induces loss of mitochondrial membrane potential. CAS #: 2001-95-8. Molecular Formula: C₅₄H₉₀N₆O₁₈. Molecular Weight: 1111.32 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.