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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Verrucarin A

Modulates Amyloid-beta production in
Alzheimer's neurons
Catalog No. SIH-614



Discovery through Partnership | Excellence through Quality

Product Name

Verrucarin A

Description

Modulates Amyloid-beta production in Alzheimer's neurons

Purity

>98% (HPLC); NMR (conforms)

CAS No.

3148-09-2

Molecular Formula

$C_{27}H_{34}O_9$

Molecular Weight

502.6

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

May be dissolved in DMSO (25 mg/ml)

Source

Synthetic

Appearance

Off-white powder

SMILES

CC1CCOC(=O)C=CC=CC(=O)OC2CC3OC4C=C(C)CCC4(COC(=O)C1O)C2(C)C35CO5

InChI

1S/C27H34O9/c1-16-8-10-26-14-33-24(31)23(30)17(2)9-11-32-21(28)6-4-5-7-22(29)36-18-13-20(35-19(26)12-16)27(15-34-27)25(18,26)3/h4-7,12,17-20,23,30H,8-11,13-15H2,1-3H3/b6-4+,7-5+

InChIKey

NLUGUZJQJYVUHS-YDFGWWAZSA-N

Safety Phrases

Classification: Danger. Hazard Statements

H300 (100%): Fatal if swallowed [Danger Acute toxicity, oral]

H310 (100%): Fatal in contact with skin [Danger Acute toxicity, dermal]

H330 (100%): Fatal if inhaled [Danger Acute toxicity, inhalation]

Precautionary Statement Codes;

P260 - P262 - P264 - P280 - P302 + P352 + P310 - P304 + P340 + P310

Cite This Product

Verrucarin A (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-614)

Biological Description

Alternative Names

Muconomycin-A; 379-Y; Glutinosin-I; Myrothecin-I; NSC-126728

Research Areas

Alzheimer's Disease, Cancer, Cell Signaling, Growth Factors, Neurodegeneration, Neuroscience, TNF

PubChem ID

6326658

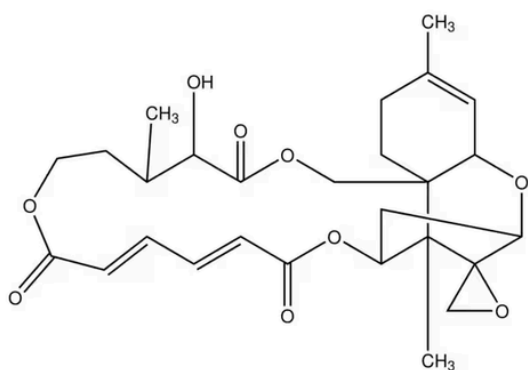
Scientific Background

Verrucarin A is a macrocyclic trichothecene mycotoxin from *Myrothecium* sp. It is being investigated as it modulates amyloid-beta production in Alzheimer's patients neurons (1). It is a potent and selective inhibitor of the steroid receptor coactivator-3 and selectively down-regulates its expression (2). It is cytotoxic to multiple types of cancer cells at low nM concentrations (IC₅₀=4.9 nM for HepG2 cells) but not toward normal liver cells (2,3). It enhances TNF α -induced (4) and TRAIL-induced apoptosis (5). It reduces phosphorylation of IRE α and inhibits tunicamycin-induced ER stress in FaO rat liver cells (6).

References

1. Kondo T., et al. (2022) *Sci Rep.* 12(1): 2690: <https://pubmed.ncbi.nlm.nih.gov/35236875/>
2. F Yan et al. *PLOS One* 2014 9(4):e95243
3. K Palanivel et al. *Tumour Biol.* 2014 35:10159
4. RG Jayasooriya et al. *Environ. Toxicol. Pharmacol.* 2013 36:303
5. D-O Moon et al. *Toxicol. In Vitro* 2013 27:257 6. EY Bae et al. *Molecules* 2015 20:8988

Product Images



Chemical structure of Verrucarin A (SIH-614), a Modulates Amyloid-beta production in Alzheimer's neurons. CAS #: 3148-09-2. Molecular Formula: C₂₇H₃₄O₉. Molecular Weight: 502.6 g/mol.

Product Citations

Reviews

There are no reviews yet.