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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Bafilomycin A1

Autophagy inhibitor
Catalog No. SIH-391



Discovery through partnership | Excellence through quality

Overview

Product Name

Bafilomycin A1

Description

Autophagy inhibitor

Purity

>95%

CAS No.

88899-55-2

Molecular Formula

C11H18O1

Molecular Weight

622.84

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in 100% ethanol, methanol or DMSO.

Source

Synthetic

Appearance

White powder to colorless film.

SMILES

[C@]1(O[C@@H]([C@H]([C@H](O)C1)C)C(C)O)[C@H]([C@H](O)[C@@H]([C@H]2OC(=O)C=C/C=C/[C@H]([C@@H](O)[C@H](CC=C/C=C/[C@@H]2OC)

InChI

InChI=1S/C35H58O9/c1-19(2)32-24(7)27(36)18-35(40,44-32)26(9)31(38)25(8)33-28(41-10)14-12-13-20(3)15-22(5)30(37)23(6)16-21(4)17-29(42-11)34(39)43-33/h12-14,16-17,19,22-28,30-33,36-38,40H,15,18H2,1-11H

InChIKey

XDHNQDDQEHDUTM-JQWOJBOSSA-N

Safety Phrases

Classification: D2B- Toxic Material Causing Other Toxic Effects Irritant

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:

H315- Causes skin irritation.

H319- Causes serious eye irritation.

H335- May cause respiratory irritation.

Precautionary statements:

P261- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264- Wash skin thoroughly after handling.

P271- Use only outdoors or in a well-ventilated area.

P280- Wear protective gloves/ eye protection/ face protection.

P302 + P352- IF ON SKIN: Wash with plenty of soap and water.

P304 + P340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312- Call a POISON CENTER or doctor/ physician if you feel unwell.

P321- Specific treatment (see supplemental first aid instructions on this label).

P332 + P313- If skin irritation occurs: Get medical advice/ attention.

P337 + P313- If eye irritation persists: Get medical advice/ attention.

P362- Take off contaminated clothing and wash before reuse.

P403 + P233- Store in a well-ventilated place. Keep container tightly closed.

P405- Store locked up.

P501- Dispose of contents/ container to an approved waste disposal plant.

Cite This Product

Bafilomycin A1 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-391)

Biological Description

Alternative Names

(3Z,5E,7R,8S,9S,11E,13E,15S,16R)-8-Hydroxy-16-[(1S,2R,3S)-2-hydroxy-1-methyl-3-[(2R,4R,5S,6R)-tetrahydro-2,4-dihydroxy-5-methyl-6-(1-methylethyl)-2H-pyran-2-yl]butyl]-3,15-dimethoxy-5,7,9,11-tetramethyloxacyclohexadeca-3,5,11,13-tetraen-2-one

Research Areas

Cancer, Autophagy

PubChem ID

6436223

Scientific Background

Bafilomycin A1 is a macrolide antibiotic derived from *Streptomyces griseus*. It selectively inhibits vacuolar-type H⁺-ATPases, allowing it to be used to differentiate between different types of ATPases. Bafilomycin also acts to inhibit autophagy by either blocking autophagosome-lysosome fusion, or by blocking lysosomal degradation.

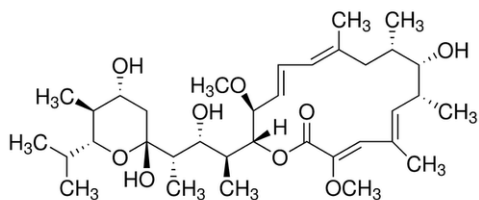
References

1. Gagliardi S., et al. (1999). *Curr Med Chem.* 6(12): 1197-212.

- Fass E., et al. (2006). J Biol Chem. 281(47): 36303-16.
- Yamamoto A., et al. (1998). Cell Struct Funct. 23(1): 33-42.

Product Images

Chemical structure of Bafilomycin A1 (SIH-391), a Autophagy inhibitor. CAS #: 88899-55-2. Molecular Formula: C₃₅H₅₈O₉. Molecular Weight: 622.84 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.