

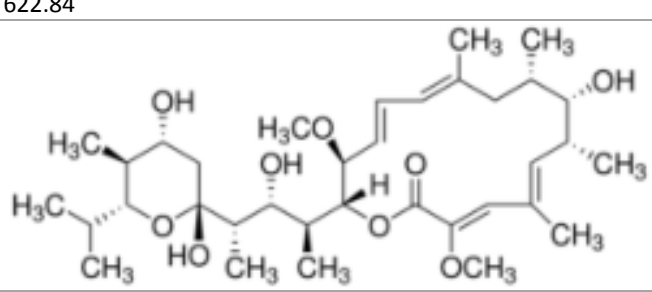
Bafilomycin A1

SIH-391-100UG

Overview

Product Name	Bafilomycin A1 Small Molecule
Unit Size	100ug
Description	Autophagy inhibitor
Purity	≥95%

Technical Data

Alternative Name(s)	(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
Formula	C35H58O9
CAS#	88899-55-2
Molecular Weight	622.84
Chemical Structure	
Solubility	Soluble in 100% ethanol, methanol or DMSO.
Source	Synthetic
Appearance	White powder to colorless film.
Storage Conditions	-20°C; 1 year+
Shipping Temperature	Shipped Ambient
SMILES	<chem>[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)</chem>
Research Area(s)	Autophagy

Biological Description

Function	<p>Bafilomycin A1 is a macrolide antibiotic derived from <i>Streptomyces griseus</i>. 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.</p> <p>1. Gagliardi S., et al. (1999). <i>Curr Med Chem.</i> 6(12): 1197-212. 2. Fass E., et al. (2006). <i>J Biol Chem.</i> 281(47): 36303-16. 3. Yamamoto A., et al. (1998). <i>Cell Struct Funct.</i> 23(1): 33-42.</p>
Product Citations	PubMed ID: N/A

Material Safety Data Sheet

Bafilomycin A1 SIH-391-100UG

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Regulatory Information

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.

Physical Data

This product consists of powder, shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS Number: 88899-55-2

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.