

Product Data Sheet

Product Name: Bafilomycin B1

Cat. No.: GC18297

Chemical Properties

Cas. No. 88899-56-3

Chemical Name N/A

SMILES C[C@H]([C@@](C[C@H]1OC(/C=C/C(NC(C(CC2)=O)=C2O)=O)=O)(O[C@H](C(C)C)[C@H]1C)O)[C@H](O)[C@@H]([C@](OC(/C(OC)=C/C(C)=C/[C@@H](C)[C@@H](O)[C@@H](C)C3)=O)([H])[C@H](/C=C/C=C3\C)OC)C

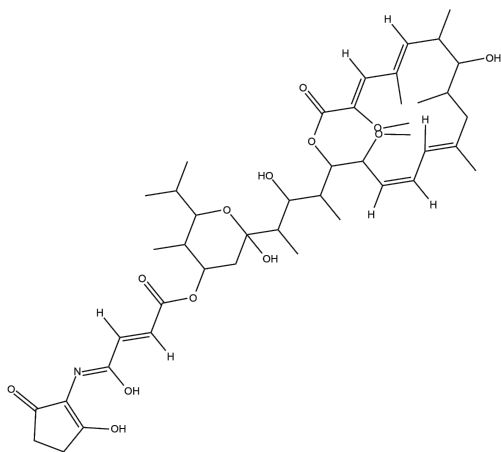
Formula C₄₄H₆₅NO₁₃ M.Wt 816

Solubility DMSO : 100 mg/mL (122.55 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

The bafilomycins are fungal plecomacrolide antibiotics with a 16-membered lactone ring. They inhibit the growth of Gram-positive bacteria and fungi. Bafilomycin B1 is a selective, reversible inhibitor of

Caution: Product has not been fully validated for medical applications. For research use only.

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vacuolar H⁺-ATPases (V-ATPases), blocking these proton pumps in mammalian, plant, or fungal cells with an IC₅₀ value in the 4-400 nM range. It is at least 1,000-fold less potent at most other types of ATPases. When used at 100 nM, the related macrolide bafilomycin A1 blocks V-ATPase-mediated acidification of lysosomes during autophagy, preventing protein degradation. Remarkably, at only 1 nM, both bafilomycin A1 or B1 dramatically attenuate chloroquine-induced apoptosis of neurons without altering autophagy.

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