



LKT Laboratories, Inc.

Bafilomycin A1

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Product Information

Product ID B0025

CAS No. 88899-55-2

Chemical Name

Synonym

Formula $C_{35}H_{58}O_9$

Formula Wt. 622.83

Melting Point

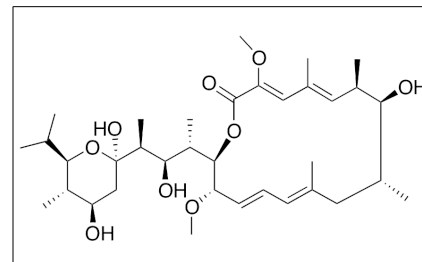
Purity $\geq 90\%$

Solubility Soluble in DMSO, ethanol
and methanol.

Store Temp -20°C

Ship Temp Ambient

Description Bafilomycin A1 is a macrolide antibiotic initially produced by *Streptomyces* that exhibits anti-parasitic, antimalarial, and anticancer chemotherapeutic activities. Bafilomycin A1 inhibits the vacuolar H^{+} ATPase and suppresses autophagy. Bafilomycin kills *Plasmodium* parasites in cellular models, and separately, induces cell death and suppresses tumor growth in animal models of breast cancer.



Bulk quantities available upon request

Product ID	Size
B0025	0.1 mg
B0025	1 mg
B0025	5 mg

References Graham RM, Thompson JW, Webster KA. Inhibition of the vacuolar ATPase induces Bnip3-dependent death of cancer cells and a reduction in tumor burden and metastasis. *Oncotarget*. 2014 Mar 15;5(5):1162-73. PMID: 24811485.

Xu MY, Lee SY, Kang SS, et al. Antitumor activity of jujuboside B and the underlying mechanism via induction of apoptosis and autophagy. *J Nat Prod*. 2014 Feb 28;77(2):370-6. PMID: 24547878.

van Schalkwyk DA, Chan XW, Misiano P, et al. Inhibition of *Plasmodium falciparum* pH regulation by small molecule indole derivatives results in rapid parasite death. *Biochem Pharmacol*. 2010 May 1;79(9):1291-9. PMID: 20067768.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.