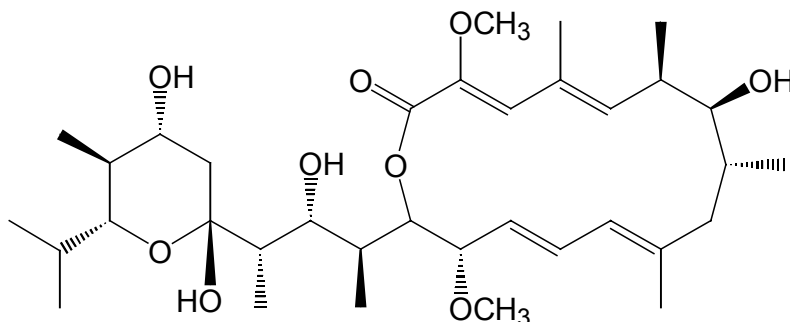


Bafilomycin A1

Code: **BIA-B1012**

Pack sizes: **1.0 mg, 5.0 mg**



Synonyms :

Specifications

CAS #	: 88899-55-2
Molecular Formula	: C ₃₅ H ₅₈ O ₉
Molecular Weight	: 622.8
Source	: Streptomyces sp. MST-AS5338
Appearance	: White solid
Purity	: > 95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Note, forms methyl ketal on long term storage in methanol.

Application Notes

Bafilomycin A1 is a member of a potent family of macrocyclic lactones with a broad spectrum of biological activity including activity against bacteria, yeast, fungi, nematodes, insects and antitumor cell lines. Bafilomycin A1 is an inhibitor of vacuolar-type ATPase.

References

1. Bafilomycins: a class of inhibitors of membrane ATPases from microorganisms, animal cells, and plant cells. Bowman E.J. et al. *Proc. Natl Acad. Sci. USA*. **1988**, 85, 7972.
2. Bafilomycin A1, a specific inhibitor of vacuolar-type H(+)-ATPase, inhibits acidification and protein degradation in lysosomes of cultured cells. Yoshimori T. et al. *J. Biol. Chem.* **1991**, 266, 17707.
3. Vacuolar ATPase as a drug discovery target. Niikura K. *Drug News Perspect.* **2006**, 19, 139.