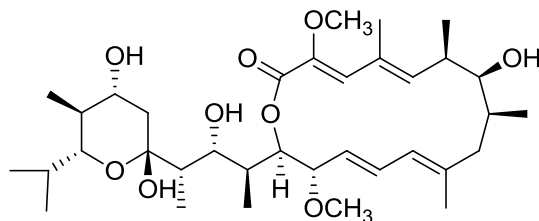


Bafilomycin A1

Code No.: **BIA-B1012**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	:	88899-55-2
Molecular Formula	:	C₃₅H₅₈O₉
Molecular Weight	:	622.8
Source	:	<i>Streptomyces</i> sp.
Appearance	:	White solid
Purity	:	>95% by HPLC
Long Term Storage	:	-20°C
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility. 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 broad spectrum biological activity, including activity against bacteria, yeast, fungi, nematodes, insects and tumor 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.