

Product Name:	Bafilomycin A1
Product Number:	B038
CAS Number:	88899-55-2
Molecular Formula:	$C_{35}H_{58}O_9$
Molecular Weight:	622.8
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>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.</p> <p>Bafilomycin A1 is soluble in ethanol, methanol, DMF and DMSO. NOTE: forms methyl ketal on long term storage in methanol.</p>
Mechanism of Action:	Bafilomycin A1 is an inhibitor of vacuolar-type ATPase.
References:	<p>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.</p> <p>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.</p> <p>Vacuolar ATPase as a drug discovery target. Niikura K. Drug News Perspect. 2006, 19, 139.</p>