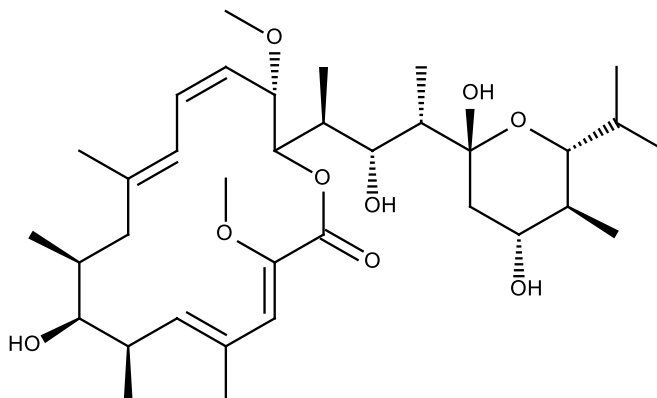


Catalog # 10-2060

Bafilomycin A1

CAS# 88899-55-2

Lot # X101723



Macrolide antibiotic derived from *Streptomyces griseus* that is a potent and selective inhibitor of vacuolar H⁺-ATPases (IC₅₀ = 0.6 – 1.5 nM).^{1,2} Inhibits autophagy via disruption of fusion between autophagosomes and lysosomes.³

- 1) Werner *et al.* (1984) *Metabolic products of microorganisms. Bafilomycins, a new group of macrolide antibiotics. Production, isolation, chemical structure and biological activity.* J.Antibiot. **37** 110
- 2) Drose and Altendorf (1997) *Bafilomycins and concanamycins as inhibitors of V-ATPase and P-ATPase* J.Exp.Biol. **200** 1
- 3) Yamamoto *et al.* (1998) *Bafilomycin A1 prevents maturation of autophagic vacuoles by inhibiting fusion between autophagosomes and lysosomes in rat hepatoma cell line, H-4-II-E cells* Cell Struct.Func. **23** 33

PHYSICAL DATA

Molecular Weight:	622.84
Molecular Formula:	C ₃₅ H ₅₈ O ₉
Purity:	>95% by TLC
	NMR: Conforms
Solubility:	DMSO (5 mg/mL with warming)
Physical Description:	Off-white to yellow film
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.