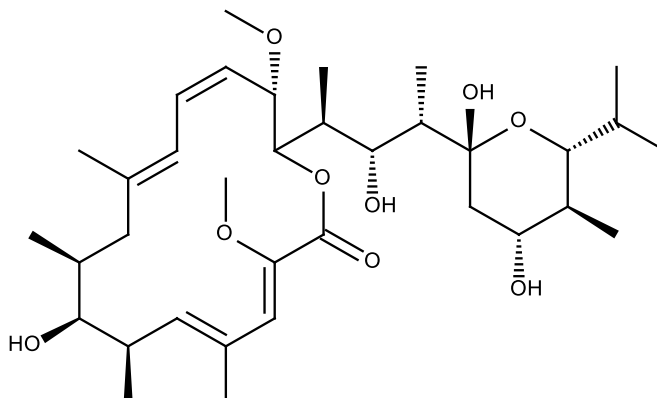


**Catalog # 10-2060**

**Bafilomycin A1**

CAS# 88899-55-2

Lot # X101729



Macrolide antibiotic derived from *Streptomyces griseus* that is a potent and selective inhibitor of vacuolar H<sup>+</sup>-ATPases (IC<sub>50</sub> = 0.6 – 1.5 nM).<sup>1,2</sup> Inhibits autophagy via disruption of fusion between autophagosomes and lysosomes.<sup>3</sup>

- 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 <sub>35</sub> H <sub>58</sub> O <sub>9</sub>  |
| 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.**