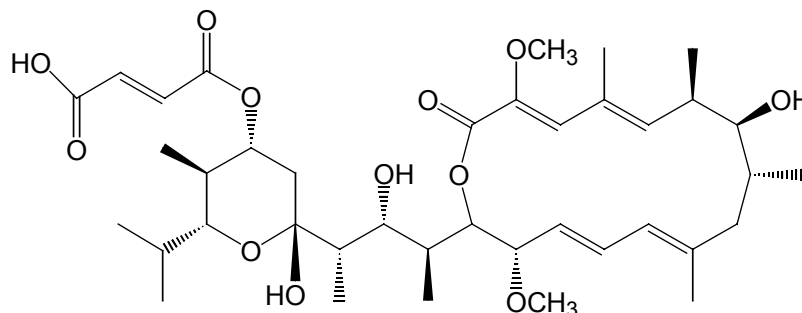


## Bafilomycin C1

Code: **BIA-B1111**

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



Synonyms : **Antibiotic L-681,110A1**

### Specifications

CAS # : **88979-61-7**  
Molecular Formula : **C<sub>39</sub>H<sub>60</sub>O<sub>12</sub>**  
Molecular Weight : **720.4**  
Source : ***Streptomyces* sp. MST-AS5338**  
Appearance : **Light tan 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 C1 shares a similar mode of action and activity as its more accessible A1 analogue. Bafilomycin C1 is broadly active against bacteria, fungi, insects, nematodes and cestodes. It has attracted interest as a potential antiosteoporotic agent in treating bone lytic diseases. The presence of the fumarate group has provided an ideal ligand for affinity chromatography of V-ATPase.

### References

1. Structure and function of V-ATPases in osteoclasts: potential therapeutic targets for the treatment of osteolysis. Xu J. et al. *J. Histol. Histopathol.* **2007**, 22, 443.
2. Bafilolides, Potent Inhibitors of the Motility and Development of the Free-Living Stages of Parasitic Nematodes. Lacey E. et al. *Int. J. Parasitol.* **1995**, 25, 349.
3. Purification of Vacuolar ATPase with Bafilomycin C1 Affinity Chromatography. Rautiala T.J. et al. *Biochem. Biophys. Res. Comm.* **1993**, 194, 50.