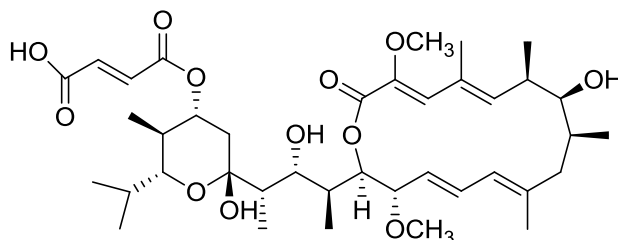


## Bafilomycin C1

Code No.: **BIA-B1111**

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



Synonyms : L-681, 110A1

### Specifications

CAS #	: 88979-61-7
Molecular Formula	: C <sub>39</sub> H <sub>60</sub> O <sub>12</sub>
Molecular Weight	: 734.9
Source	: <i>Streptomyces</i> sp.
Appearance	: White powder
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 C1 is a member of a potent family of macrocyclic lactones. 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. Bafilomycin C1 has attracted interest as a potential agent for treating osteoporosis. The presence of the fumarate group provides an ideal ligand for affinity chromatography of V-ATPase.

### References

1. 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.
2. Purification of Vacuolar ATPase with Bafilomycin C1 Affinity Chromatography. Rautiala T.J. et al., Biochem. Biophys. Res. Comm. 1993, 194, 50.
3. Structure and function of V-ATPases in osteoclasts: potential therapeutic targets for the treatment of osteolysis. Xu J. et al., Histol. Histopathol. 2007, 22, 443.