

Product Name: Bafilomycin C1

Product Number: B042

CAS Number: 88979-61-7

Molecular Formula: $C_{39}H_{60}O_{12}$

Molecular Weight: 734.9

Appearance: White powder

Storage Conditions: -20°C

Description: Bafilomycin C1 is a member of a potent family of macrocyclic lactones. 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.

Bafilomycin C1 is soluble ethanol, methanol, DMF and DMSO.

Mechanism of Action: Bafilomycin C1 is an inhibitor of vacuolar-type ATPase.

References: 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.

Purification of Vacuolar ATPase with Bafilomycin C1 Affinity Chromatography. Rautiala T.J. et al. Biochem. Biophys. Res. Comm. 1993, 194, 50.

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.