Bafilomycin A_1

A selective V-ATPase inhibitor that disrupts lysosomal acidification, essential for autophagy flux analysis and lysosomal function studies.

Bafilomycin A1 is a macrolide antibiotic produced by *Streptomyces* with diverse biological activities. Bafilomycin A1 acts as a potent and selective inhibitor of vacuolar-type H^+-ATPase (V-type) (IC_{50}=0.04-0.4nmol/mg). Bafilomycin A1 is a valuable tool for distinguishing among different types of ATPases. Bafilomycin A1 inhibits endosomal acidification, lysosomal cholesterol trafficking, as well as autophagosome maturation and protein degradation. Bafilomycin A1 also blocks pH regulation in brain cells.

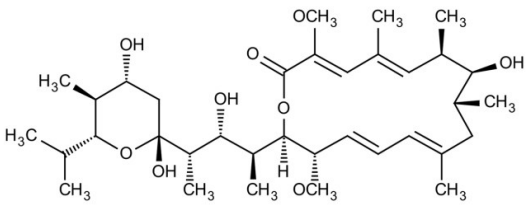
Citations: 193 View Online »

Ordering Information Order Online »

BML-CM110-0100	100µg

Manuals, SDS & CofA View Online »

- Potent and selective inhibitor of vacuolar H^+ATPases
- Compound used to study autophagy in a variety of cells
- Highly cited


OCH3
CH3
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Bafilomycin A
Cat. No.: BML-CM
Lot No.: 0909220
Storage: -20°C
100 µg
MW 622.8.
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored at -20°C. Stock solutions are stable for up to 3 months at -20°C.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	NSC 381866
Appearance	White powder to colorless film.
CAS	88899-55-2
Couple Target	ATPase
Couple Type	Inhibitor
Formula	$C_{35}H_{58}O_9$
MW	622.8
Purity	≥95% (HPLC, TLC)
Solubility	Soluble in DMSO (5mg/ml), 100% ethanol, or 100% methanol (5mg/ml).
Source	*Streptomyces griseus*
Technical Info / Product Notes	Typical concentrations for use in cell culture are 50-100nM. Note: Product is not sterile.

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