

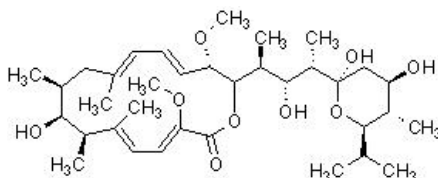
Bafilomycin A1, (V)-ATPase inhibitor ab120497

61 References [画像数 4](#)

製品の概要

製品名	Bafilomycin A1, (V)-ATPase inhibitor
製品の詳細	Highly potent, selective (V)-ATPase inhibitor
生理活性の詳細	Highly potent, selective vacuolar (V)-ATPase inhibitor (IC ₅₀ = 500 pM in chromaffin granule membranes). Induces vacuolar deacidification and promotes apoptosis.
CAS 番号	88899-55-2

構造式



製品の特性

体系名	(3 <i>Z</i> ,5 <i>E</i> ,7 <i>R</i> ,8 <i>S</i> ,9 <i>S</i> ,11 <i>E</i> ,13 <i>E</i> ,15 <i>S</i> ,16 <i>R</i>)-8-Hydroxy-16-[(1 <i>S</i> ,2 <i>R</i> ,3 <i>S</i>)-2-hydroxy-1-methyl-3-[(2 <i>R</i> ,4 <i>R</i> ,5 <i>S</i> ,6 <i>R</i>)-tetrahydro-2,4-dihydroxy-5-methyl-6-(1-methylethyl)-2 <i>H</i> -pyran-2-yl]butyl]-3,15-dimethoxy-5,7,9,11-tetramethyloxacyclohexadeca-3,5,11,13-tetraen-2-one
分子量	622.84
分子式	C ₃₅ H ₅₈ O ₉
PubChem 登録番号	6436223
保存方法	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in ethanol to 5mM
使用に関する注意	This product is supplied in one (or more) pack size which is freeze dried. Therefore the contents may not be readily visible, as they can coat the bottom or walls of the vial. Please see our FAQs and information page for more details on handling.

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked](#)

[questions \(FAQ\) page](#) for more details.

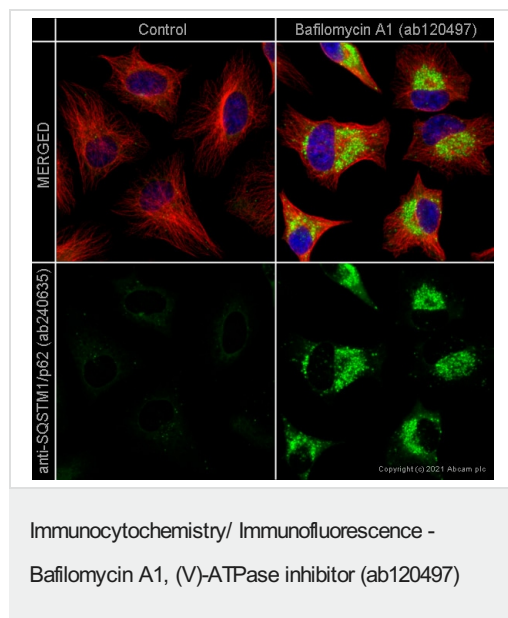
SMILES 線形表記

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O[C@@]1(C[C@@H](O)[C@H](C)[C@H](O)C(C)C)[C@@H](C)[C@H](O)[C@H](C)C2OC(=O)C(OC)=CC=C(C)[C@@H](C)[C@@H](O)[C@@H](C)CC(C)=CC=C[C@@H]2OC
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由来

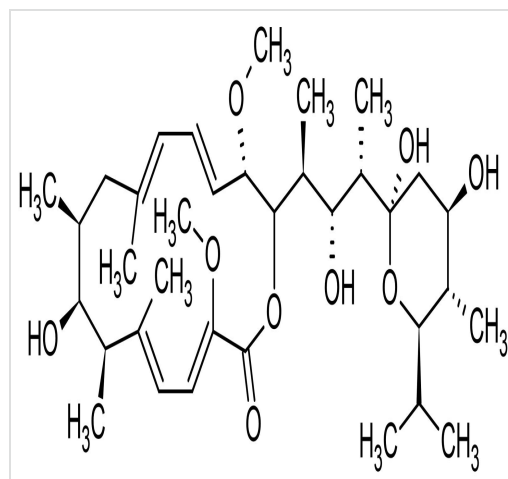
Streptomyces griseus

画像



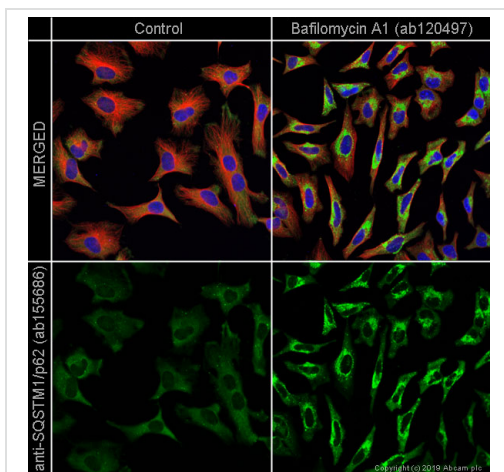
ab240635 staining SQSTM1/p62 (autophagosome) in control HeLa cells (left panel) and SQSTM1/p62 in HeLa cells treated with 100nM bafilomycin A1 (ab120497) for 18hrs (right panel). The cells were fixed with methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab240635** at 2ug/ml and **ab7291** (Tubulin) at 1/1000 dilution overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI.

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



2D chemical structure image of ab120497, Bafilomycin A1, (V)-ATPase inhibitor

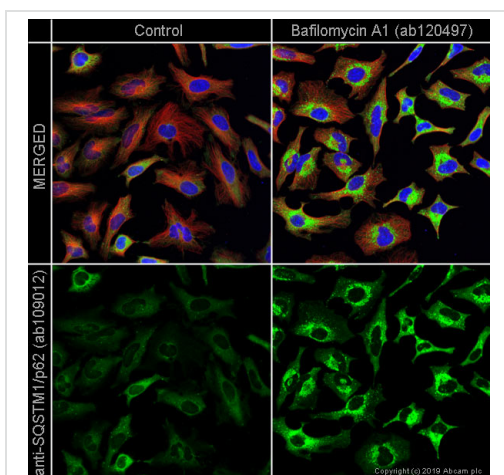
Chemical Structure - Bafilomycin A1, (V)-ATPase inhibitor (ab120497)



Immunocytochemistry/ Immunofluorescence -
Bafilomycin A1, (V)-ATPase inhibitor (ab120497)

ab155686 staining SQSTM1/p62 (autophagosome) in control HeLa cells (left panel) and SQSTM1/p62 in HeLa cells treated with 1uM bafilomycin A1 (ab120497) for 18hrs (right panel). The cells were fixed with methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab155686** at 1/500 dilution and **ab7291** (Tubulin) at 1/1000 dilution overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence -
Bafilomycin A1, (V)-ATPase inhibitor (ab120497)

ab109012 staining SQSTM1/p62 (autophagosome) in control HeLa cells (left panel) and SQSTM1/p62 in HeLa cells treated with 1uM bafilomycin A1 (ab120497) for 18hrs (right panel). The cells were fixed with methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab109012** at 5ug/ml and **ab7291** (Tubulin) at 1/1000 dilution overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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