

Product Name: Oligomycin A

Catalog No.: 4110

Batch No.: 10

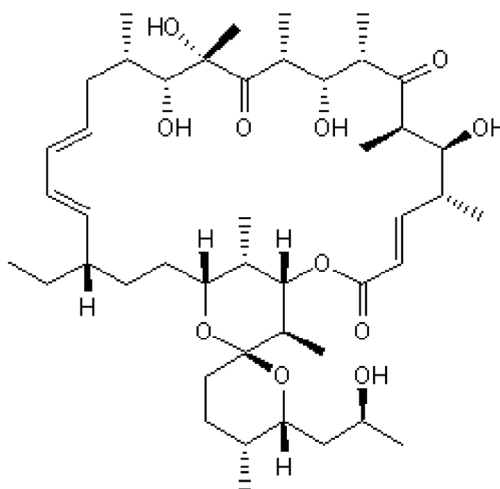
CAS Number: 579-13-5

EC Number: 209-437-3

IUPAC Name: (1*R*,4*E*,5'*S*,6*S*,6'*S*,7*R*,8*S*,10*R*,11*R*, 12*S*,14*R*,15*S*,16*R*,18*E*,20*E*,22*R*,25*S*,27*R*,28*S*,29*R*)-22-ethyl-7,11,14,15-tetrahydroxy-6'-[(2*R*)-2-hydroxypropyl]-5',6,8,10,12,14,16,28,29-nonamethyl-3',4',5',6'-tetrahydro-3*H*,9*H*,13*H*-spiro [2,26-dioxabicyclo[23.3.1]nonacosa-4,18,20-triene-27,2'-pyran]-3,9,13-trione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₅ H ₇₄ O ₁₁
Batch Molecular Weight:	791.06
Physical Appearance:	White solid
Solubility:	ethanol to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.7% purity
Mass Spectrum:	Consistent with structure

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CAS Number:	579-13-5	EC Number:	209-437-3	
IUPAC Name:	(1R,4E,5'S,6S,6'S,7R,8S,10R,11R, 12S,14R,15S,16R,18E,20E,22R,25S,27R,28S,29R)-22-ethyl-7,11,14,15-tetrahydro-6'-[(2R)-2-hydroxypropyl]-5',6,8,10,12,14,16,28,29-nonamethyl-3',4',5',6'-tetrahydro-3H,9H,13H-spiro [2,26-dioxabicyclo[23.3.1]nonacos-4,18,20-triene-27,2'-pyran]-3,9,13-trione			

Description:

Oligomycin A is an inhibitor of mitochondrial ATP synthase and uncoupler of oxidative phosphorylation. Antibiotic; exhibits anti-tumor activity.

Physical and Chemical Properties:

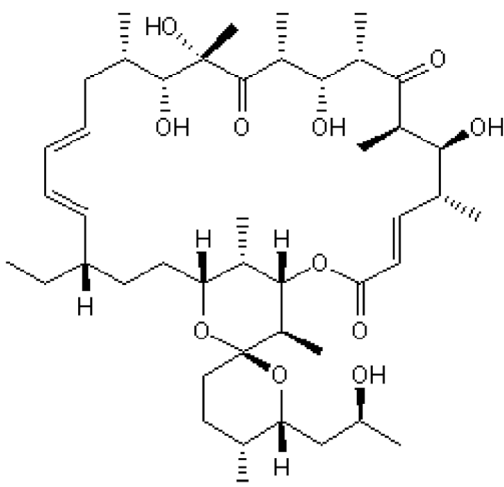
Batch Molecular Formula: C₄₅H₇₄O₁₁

Batch Molecular Weight: 791.06

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Salomon *et al* (2001) Apoptolidin, a selective cytotoxic agent, is an inhibitor of F₀F₁-ATPase. *Chem.Biol.* **8** 71. PMID: 11182320.

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