

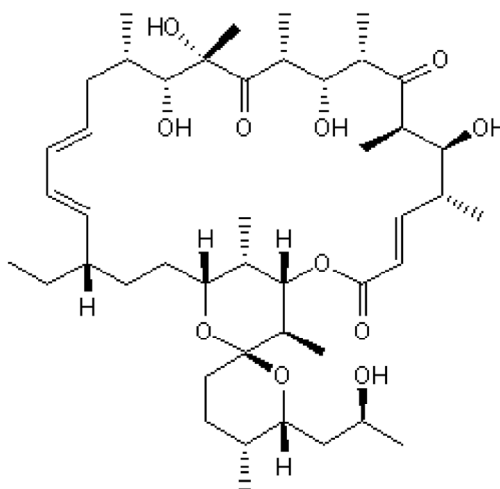
# Certificate of Analysis

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<b>Product Name:</b>	<b>Oligomycin A</b>	<b>Catalog No.:</b>	<b>4110</b>	<b>Batch No.:</b>	<b>11</b>
<b>CAS Number:</b>	579-13-5	<b>EC Number:</b>	209-437-3		
<b>IUPAC Name:</b>	(1 <i>R</i> ,4 <i>E</i> ,5' <i>S</i> ,6 <i>S</i> ,6' <i>S</i> ,7 <i>R</i> ,8 <i>S</i> ,10 <i>R</i> ,11 <i>R</i> , 12 <i>S</i> ,14 <i>R</i> ,15 <i>S</i> ,16 <i>R</i> ,18 <i>E</i> ,20 <i>E</i> ,22 <i>R</i> ,25 <i>S</i> ,27 <i>R</i> ,28 <i>S</i> ,29 <i>R</i> )-22-ethyl-7,11,14,15-tetrahydroxy-6'-[(2 <i>R</i> )-2-hydroxypropyl]-5',6,8,10,12,14,16,28,29-nonamethyl-3',4',5',6'-tetrahydro-3 <i>H</i> ,9 <i>H</i> ,13 <i>H</i> -spiro [2,26-dioxabicyclo[23.3.1]nonacosa-4,18,20-triene-27,2'-pyran]-3,9,13-trione				

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 97.8% purity
<b>Mass Spectrum:</b>	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** Oligomycin A

**Catalog No.:** 4110

**Batch No.:** 11

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

**Description:**

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

**Physical and Chemical Properties:**

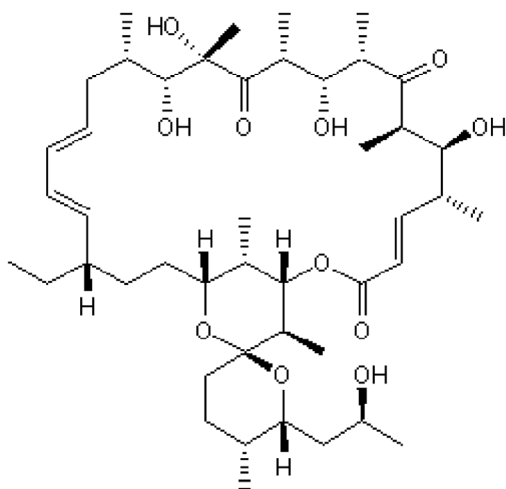
Batch Molecular Formula: C<sub>45</sub>H<sub>74</sub>O<sub>11</sub>

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 F<sub>0</sub>F<sub>1</sub>-ATPase. Chem.Biol. **8** 71. PMID: 11182320.

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