# Oligomycin ab141829

## Overview

**Product name**  | Oligomycin  
**Description** | ATP synthase inhibitor  
**Biological description** | ATP synthase inhibitor. Blocks the proton channel ($F_0$ subunit). Macrolide antibiotic.  
**Purity** | > 95%

## Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Molecular weight</strong></td>
<td>791.07</td>
</tr>
<tr>
<td><strong>Chemical structure</strong></td>
<td><img src="image" alt="Chemical structure" /></td>
</tr>
<tr>
<td><strong>Molecular formula</strong></td>
<td>C_{45}H_{74}O_{11} (for Oligomycin A)</td>
</tr>
<tr>
<td><strong>CAS Number</strong></td>
<td>1404-19-9</td>
</tr>
<tr>
<td><strong>PubChem identifier</strong></td>
<td>5281899</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.</td>
</tr>
<tr>
<td><strong>Solubility overview</strong></td>
<td>Soluble in ethanol to 10 mM and in DMSO to 100 mM</td>
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<tr>
<td><strong>Handling</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

## References

1 References  
1 Image
Oligomycin inhibits ATP-dependent adipogenesis in 3T3-L1 cells. Cells were induced to undergo adipocyte differentiation (A-D) for 5 days. Different concentrations of Oligomycin (ab141829) were then added (B, 1 µg/ml; C, 2 µg/ml and D, 10 µg/ml). After 10 days, the cells were stained with Oil Red O and visualized under light microscopy.

Source
Synthetic

SMILES
CCC1CCC2C(C(C3(O2)CCC(C(O3)CC(C)O)C)C)OC(=O)C=CC(C(C=C(C1)C)O)(C)O(C)O(C)O(C)O(C)O(C)C

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