1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( \text{C}_{29}\text{H}_{37}\text{N}_{3}\text{O}_{6} \)

**Batch Molecular Weight:** 523.63

**Physical Appearance:** White solid

**Solubility:** ethanol to 10 mM with gentle warming, DMSO to 50 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**

![Molecular Structure](Image)

2. ANALYTICAL DATA

**HPLC:** Shows 98.6% purity

**\(^1\text{H NMR:}\)** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>66.52</td>
<td>7.12</td>
<td>8.02</td>
</tr>
<tr>
<td>Found</td>
<td>66.59</td>
<td>7.13</td>
<td>8.04</td>
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</tbody>
</table>
Product Information

Product Name: A23187, free acid

CAS Number: 52665-69-7

IUPAC Name: 5-(Methylamino)-2-[[2R,3R,6S,8S,9R,11R]-3,9,11-trimethyl-8-[[1S]-1-methyl-2-oxo-2-(1H-pyrorl-2-yl)-ethyl]-1,7-dioxaspiro[5.5]undec-2-yl]-4-benzoxazolecarboxylic acid

Description:
Calcium ionophore that induces Ca\(^{2+}\)-dependent cell death by increasing intracellular calcium concentration. Promotes intracellular ROS generation and platelet particle formation (fragmentation) in vitro and in vivo. Can be used to induce autophagy in mammalian cells.

Physical and Chemical Properties:

Batch Molecular Formula: C\(_{29}\)H\(_{37}\)N\(_{3}\)O\(_6\)

Batch Molecular Weight: 523.63

Physical Appearance: White solid

Minimum Purity: >98%

Storage: Desiccate at +4°C

Solubility & Usage Info:
ethanol to 10 mM with gentle warming
DMSO to 50 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. Our standard recommendations are:

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:


