1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( \text{C}_{27}\text{H}_{33}\text{NO}_4 \)

**Batch Molecular Weight:** 435.56

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM, ethanol to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**

![Batch Molecular Structure Image]

2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>74.45</td>
<td>7.64</td>
</tr>
<tr>
<td>Found</td>
<td>73.35</td>
<td>7.69</td>
</tr>
</tbody>
</table>
Product Information

Product Name: Paxilline
Catalog No.: 2006

CAS Number: 57186-25-1
IUPAC Name: \((2R,4bS,6aS,12bS,12cR,14aS)-5,6,6a,7,12,12b,12c,13,14,14a-Decahydro-4b-hydroxy-2-(1-hydroxy-1-methylethyl)-12b,12c-dimethyl-2H-pyrano[2''',3''':5'',6'']benz[1',2':6,7]indeno[1,2-b]indol-3(4bH)-one\)

Description:
Paxilline is a potent blocker of high-conductance \(\text{Ca}^{2+}\)-activated \(\text{K}^{+}\) (BK, \(\text{K}^{1.1}\)) channels. Binds to the \(\alpha\)-subunit of \(\text{BK}_{\text{Ca}}\) (\(K_i = 1.9\) nM for block of currents in \(\alpha\)-subunit-expressing oocytes) and enhances binding of charybdotoxin to \(\text{BK}_{\text{Ca}}\) channels in vascular smooth muscle. Also inhibits sarcoplasmic reticulum \(\text{Ca}^{2+}\)-ATPase (\(IC_{50} = 5 - 50\) \(\mu\)M).

Physical and Chemical Properties:
Batch Molecular Formula: \(\text{C}_{27}\text{H}_{33}\text{NO}_4\)
Batch Molecular Weight: 435.56
Physical Appearance: White solid
Minimum Purity: \(\geq 98\%\)

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 20 mM
This product contains 1 molar equivalent of acetonitrile.

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:

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