1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>$\text{C}<em>{26}\text{H}</em>{22}\text{N}<em>{2}\text{O}</em>{2} \cdot \frac{1}{4}\text{H}_{2}\text{O}$</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>398.97</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>Yellow solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO to 100 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20°C</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

- **HPLC:** Shows 98.2% purity
- **$^1\text{H NMR:}$** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Theoretical: 78.27, 5.68, 7.02
  - Found: 78.09, 5.55, 7.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Sirtinol  
**Catalog No.:** 3521  
**Batch No.:** 1

**CAS Number:** 410536-97-9  
**IUPAC Name:** 2-[[2-Hydroxy-1-naphthalenyl)methylene]amino]-N-(1-phenylethyl)benzamide

**Description:**
Cell-permeable, selective sirtuin deacetylase inhibitor (IC$_{50}$ values are 38, 68 and 131 μM at SIRT2, Sir2p and SIRT1 respectively) that has no effect on HDAC1 activity. Significantly decreases growth and viability of PCa and HEK293T cells in vitro.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C$_{20}$H$_{21}$N$_{2}$O$_{2}$·¼H$_{2}$O  
- **Batch Molecular Weight:** 398.97  
- **Physical Appearance:** Yellow solid  
- **Minimum Purity:** >98%  
- **Batch Molecular Structure:**

![Molecular Structure Image]

**Storage:** Store at -20°C  
**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**
DMSO to 100 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:**