1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>C\textsubscript{16}H\textsubscript{11}N\textsubscript{3}O\textsubscript{2}.\frac{3}{4}H\textsubscript{2}O</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>290.79</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>Red solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO to 100 mM \hspace{1cm} ethanol to 100 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at RT</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLC</td>
<td>R\textsubscript{f} = 0.58 (Dichloromethane: Methanol [10:1])</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Greater than 250°C</td>
</tr>
<tr>
<td>HPLC</td>
<td>Shows 99.3% purity</td>
</tr>
<tr>
<td>\textsuperscript{1}H NMR</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Microanalysis</td>
<td>Carbon Hydrogen Nitrogen</td>
</tr>
<tr>
<td></td>
<td>Theoretical 66.09 4.33 14.45</td>
</tr>
<tr>
<td></td>
<td>Found 66.29 4.2 14.78</td>
</tr>
</tbody>
</table>
Product Name: Indirubin-3'-oxime
CAS Number: 160807-49-8
IUPAC Name: 3-[1,3-Dihydro-3-(hydroxyimino)-2H-indol-2-ylidene]-1,3-dihydro-2H-indol-2-one

Description:
Inhibitor of GSK-3β (IC₅₀ = 190 nM) and cyclin dependent kinases (cdks; IC₅₀ values are 0.05, 0.18 and 0.25-0.5 μM for cdk9, cdk1 and cdk2, respectively). Also reported to inhibit AMPK, LCK and SGK. Inhibits cdk5- and GSK-3β-mediated tau phosphorylation. Induces cell cycle arrest and inhibits cell proliferation.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₆H₁₁N₃O₂·¾H₂O
Batch Molecular Weight: 290.79
Physical Appearance: Red solid
Minimum Purity: >99%

Storage: Store at RT
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
ethanol 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:

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

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