Product Specification Sheet

**Product Name:** Skepinone-L

**Catalog Number:** C7537

### Technical information:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula</td>
<td>C&lt;sub&gt;24&lt;/sub&gt;H&lt;sub&gt;21&lt;/sub&gt;F&lt;sub&gt;2&lt;/sub&gt;NO&lt;sub&gt;4&lt;/sub&gt;</td>
</tr>
<tr>
<td>CAS #</td>
<td>1221485-83-1</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>425.42</td>
</tr>
<tr>
<td>Purity</td>
<td>&gt; 99%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Yellow solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in DMSO up to 22 mM</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>(R)-2-((2,4-difluorophenyl)amino)-7-(2,3-dihydroxypropoxy)-10,11-dihydro-5H-dibeno[a,d][7]annulen-5-one</td>
</tr>
<tr>
<td>Storage</td>
<td>Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.</td>
</tr>
</tbody>
</table>

### Handling:

- To make 10 mM stock solution, add 0.235mL of DMSO for each mg of Skepinone-L.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

### Biological Activity:

Skepinone-L is an ATP-competitive, dibenzosuberone-based inhibitor of p38-MAPK and TNF-α, with IC<sub>50</sub> values of 5 and 40 nM, respectively. [1] At 1000 nM, Skepinone-L (Kd = 1.5 nM) did not inhibit any other member of an Ambit panel of 402 kinases. [2]

In vitro HeLa cell assays determined that Skepinone-L showed a concentration-dependent inhibition of HSP27 (Ser82) phosphorylation at an IC<sub>50</sub> of 25 nM. [2]. Furthermore, Skepinone-L reduced concentrations of well known p38 MAPK substrates, such as IL-1b and IL10 (IC<sub>50</sub> = 30-50 nM). [2]

### Reference:


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