1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( \text{C}_{14}\text{H}_{11}\text{F}_{3}\text{N}_{2}\text{OS} \)

**Batch Molecular Weight:** 312.31

**Physical Appearance:** White solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at RT

**Batch Molecular Structure:**

![Batch Molecular Structure Image]

2. ANALYTICAL DATA

**HPLC:** Shows 98.9% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>53.84</td>
<td>53.73</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.55</td>
<td>3.67</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.97</td>
<td>8.92</td>
</tr>
</tbody>
</table>

**Certificate of Analysis**

Print Date: Sep 17th 2019

www.tocris.com
Description:
Potent tankyrase (TNKS) inhibitor (IC\textsubscript{50} values are 4 and 11 nM for TNKS2 and TNKS1 respectively). Antagonizes Wnt signaling via stimulation of \(\beta\)-catenin degradation and stabilization of axin. Inhibits proliferation of the \(\beta\)-catenin-dependent colon carcinoma cell line DLD-1. Promotes cardiomyogenic development in mesoderm progenitor cells.

Physical and Chemical Properties:
Batch Molecular Formula: \(\text{C}_{15}\text{H}_{11}\text{F}_{3}\text{N}_{2}\text{O}\text{S}\)
Batch Molecular Weight: 312.31
Physical Appearance: White solid

Minimum Purity: \(>98\%\)

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
DMSO to 20 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:
