1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{20}H_{16}N_{2}OS \)
Batch Molecular Weight: 332.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.33 \) (Dichloromethane:Petroleum ether [40:60])
HPLC: Shows >99.5% 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>72.26</td>
<td>71.81</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.85</td>
<td>4.87</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.43</td>
<td>8.44</td>
</tr>
</tbody>
</table>
Product Information

Product Name: TCS JNK 5a
Catalog No.: 2827  Batch No.: 1

CAS Number: 312917-14-9
IUPAC Name: N-(3-Cyano-4,5,6,7-tetrahydrobenz[b]thienyl-2-yl)-1-naphthalenecarboxamide

Description:
Selective inhibitor of JNK2 and JNK3 (pIC₅₀ values are 6.7, 6.5, <5.0 and <4.8 for JNK3, JNK2, JNK1 and p38α respectively).
Displays no significant activity at a range of other protein kinases including EGFR, ErbB2, cdk2, PLK-1 and Src (pIC₅₀ < 5.0).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₀H₁₈N₂O₅S
Batch Molecular Weight: 332.42
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

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: