1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{14}N_{2}O_{3}S$
Batch Molecular Weight: 338.38
Physical Appearance: white solid
Solubility: DMSO to 100 mM, ethanol to 25 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: $R_f = 0.47$ (Ethyl acetate: Methanol [9:1])
HPLC: Shows 100% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>63.89</td>
<td>63.87</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.17</td>
<td>4.23</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.27</td>
<td>8.36</td>
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</tbody>
</table>
Product Name: TCS 2002
CAS Number: 1005201-24-0
IUPAC Name: 2-Methyl-5-[3-[4-(methylsulfinyl)phenyl]5-benzofuranyl]-1,3,4-oxadiazole

Description:

Physical and Chemical Properties:
Batch Molecular Formula: C₁₈H₁₄N₂O₃S
Batch Molecular Weight: 338.38
Physical Appearance: white solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 25 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: