1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( C_{16}H_{18}FNO_2S \)
- **Batch Molecular Weight:** 307.38
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM ethanol to 100 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **HPLC:** Shows 98.9% purity
- \( ^1H \) NMR: Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>62.52</td>
<td>5.9</td>
</tr>
<tr>
<td>Found</td>
<td>62.59</td>
<td>5.9</td>
</tr>
</tbody>
</table>
Product Name: DC 260126
CAS Number: 346692-04-4
IUPAC Name: N-(4-Butylphenyl)-4-fluorobenzenesulfonamide

Description:
Free fatty acid receptor 1 (FFA1/GPR40) antagonist. Inhibits FFA-induced increases in intracellular Ca\textsuperscript{2+} levels and suppresses palmitic acid potentiated glucose-stimulated insulin secretion in Min6 pancreatic β cells in vitro. Decreases serum insulin levels, improves insulin sensitivity and reduces the number of apoptotic pancreatic β cells in obese diabetic (db/db) rats.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{14}H\textsubscript{16}FNO\textsubscript{2}S
Batch Molecular Weight: 307.38
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at -20°C

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: