Product Name: AS 1949490  
Catalog No.: 3718  
Batch No.: 1

CAS Number: 1203680-76-5

IUPAC Name: 3-[(4-Chlorophenyl)methoxy]-N-[(1S)-1-phenylethyl]thiophene-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{20}\text{H}_{18}\text{ClNO}_2\text{S} \)

   Batch Molecular Weight: 371.88

   Physical Appearance: White solid

   Solubility: DMSO to 100 mM, ethanol to 100 mM

   Storage: Store at RT

   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 100% purity

   Chiral HPLC: Shows 100% purity

   \(^1\text{H} \text{NMR:} \) Consistent with structure

   Mass Spectrum: Consistent with structure

   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>64.59</td>
<td>64.42</td>
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<tr>
<td>Hydrogen</td>
<td>4.88</td>
<td>4.82</td>
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<tr>
<td>Nitrogen</td>
<td>3.77</td>
<td>3.74</td>
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</tbody>
</table>
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Description:
Selective SHIP2 (SH2 domain-containing inositol 5'-phosphatase 2) inhibitor (IC₅₀ values are 0.34 μM and 0.62 μM for mouse and human respectively); displays approximately 30-fold affinity for SHIP2 over SHIP1. Increases insulin-induced phosphorylation of Akt in L6 myotubules. Stimulates activation of glucose metabolism; regulates gluconeogenesis in vitro and in vivo and exhibits antidiabetic effects.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₃H₂₁ClNO₅S
Batch Molecular Weight: 371.88
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

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: