Product Name: TC-S 7009
Catalog No.: 5243
Batch No.: 2
CAS Number: 1422955-31-4
IUPAC Name: N-(3-Chloro-5-fluorophenyl)-4-nitro-2,1,3-benzoxadiazol-5-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{12}H_{6}ClF_{3}N_{4}O_{3}
Batch Molecular Weight: 308.65
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT

Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

TLC: \( R_f = 0.38 \) (Ethyl acetate:Petroleum ether [15:85])
HPLC: Shows 99.6% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>46.7</td>
<td>1.96</td>
<td>18.14</td>
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<tr>
<td>Found</td>
<td>46.57</td>
<td>1.9</td>
<td>18.17</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
High affinity and selective HIF-2α inhibitor ($K_d = 81$ nM). Binds to the HIF-2α PAS-B domain; disrupts HIF-2α-ARNT heterodimerization. Exhibits >60-fold selectivity for HIF-2α over HIF-1α. Decreases HIF-2α DNA-binding and attenuates expression of HIF-2α target genes in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{12}H_{6}ClFN_4O_3$
Batch Molecular Weight: 308.65
Physical Appearance: Yellow 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: