Product Name: VU 0409551
Catalog No.: 5693
Batch No.: 1
CAS Number: 1363281-27-9
IUPAC Name: [6,7-Dihydro-2-(phenoxymethyl)oxazolo[5,4-c]pyridin-5(4H)-yl](fluorophenyl)methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{20}H_{17}FN_{2}O_{3}
Batch Molecular Weight: 352.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: R_{f} = 0.56 (Ethyl acetate)
HPLC: Shows 99.1% purity
\textsuperscript{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

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<table>
<thead>
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<tbody>
<tr>
<td>Theoretical</td>
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<tr>
<td>Carbon</td>
<td>Hydrogen</td>
<td>Nitrogen</td>
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<tr>
<td>68.17</td>
<td>4.86</td>
<td>7.95</td>
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<tr>
<td>Found</td>
<td>68.2</td>
<td>4.54</td>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
VU 0409551 is a selective mGlu5 positive allosteric modulator (EC50 = 260 nM). Selective for mGlu5 over other mGluR subtypes, as well as 66 other receptors and ion channels. Selectively potentiates mGlu5 signaling via Gαq. Exhibits wake-promoting, antipsychotic-like and cognition-enhancing effects in animal models. Brain penetrant and orally available.

Physical and Chemical Properties:
Batch Molecular Formula: C20H17FN2O3
Batch Molecular Weight: 352.36
Physical Appearance: White solid

Minimum Purity: ≥98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 50 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:
