1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{16}H_{18}FN_{3}O_{2}

Batch Molecular Weight: 303.33

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM, ethanol to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99% 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>63.35</td>
<td>5.98</td>
<td>13.85</td>
</tr>
<tr>
<td>Found</td>
<td>63.12</td>
<td>5.94</td>
<td>13.78</td>
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</tbody>
</table>
Product Name: Retigabine
Catalog No.: 6233
Batch No.: 1

CAS Number: 150812-12-7
IUPAC Name: Ethyl [2-amino-4-[(4-fluorophenyl)methyl]amino]phenyl]carbamate

Description:
$K_7$ (KCNQ) channel activator ($EC_{50}$ values are 0.6 - 100 μM for $K_7.1 - K_7.5$). Anticonvulsant. Orally bioavailable.

Physical and Chemical Properties:
- Batch Molecular Formula: $C_{16}H_{18}FN_3O_2$
- Batch Molecular Weight: 303.33
- Physical Appearance: Off White solid
- Minimum Purity: ≥98%

Storage: Store at +4°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: