Product Name: Retigabine

CAS Number: 150812-12-7

IUPAC Name: Ethyl [2-amino-4-[[4-fluorophenyl)methyl]amino]phenyl]carbamate

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>Elemental Analysis</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>63.35</td>
<td>63.12</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.98</td>
<td>5.94</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>13.85</td>
<td>13.78</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Retigabine

CAS Number: 150812-12-7

IUPAC Name: Ethyl [2-amino-4-[[[4-fluorophenyl)methyl]amino]phenyl]carbamate

Description:
K_v7 (KCNQ) channel activator (EC_{50} values are 0.6 - 100 μM for K_v7.1 - K_v7.5). Anticonvulsant. Orally bioavailable.

Physical and Chemical Properties:
Batch Molecular Formula: C_{16}H_{18}F_{1}N_{3}O_{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.

Other Information:
INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule V DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

References: