Product Name: L-364,373
Catalog No.: 2660
Batch No.: 1
CAS Number: 103342-82-1
IUPAC Name: 5-(2-Fluorophenyl)-1,3-dihydro-3-(1H-indol-3-ylmethyl)-1-methyl-2H-1,4-benzodiazepin-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{25}H_{20}FN_{3}O \cdot \frac{1}{2}H_{2}O \)
   Batch Molecular Weight: 406.45
   Physical Appearance: Off-white solid
   Solubility: DMSO to 100 mM
   Storage: Store at +4°C
   Batch Molecular Structure:

   ![Molecular Structure](image)

2. ANALYTICAL DATA

   TLC: \( R_f = 0.16 \) (Ethyl acetate:Petroleum ether [3:7])
   HPLC: Shows 99.1% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>73.88</td>
<td>73.76</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.21</td>
<td>5.14</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>10.34</td>
<td>10.03</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

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Description:
Activator of K<sub>s</sub> (KCNQ1) channels. Activates the cardiac I<sub>Ks</sub> current that decreases action potential duration (APD) in cardiac myocytes.

Physical and Chemical Properties:
- Batch Molecular Formula: C<sub>26</sub>H<sub>20</sub>FN<sub>3</sub>O.½H<sub>2</sub>O
- Batch Molecular Weight: 406.45
- Physical Appearance: Off-white solid
- Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°C

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: