1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{25}H_{20}FN_3O \cdot \frac{1}{2}H_2O \)
Batch Molecular Weight: 406.45
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

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></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>
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

Description:
Activator of K<sub>7.1</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>30</sub>FNO<sub>1.5</sub>H<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.

Other Information:
INFORMATION FOR CUSTOMERS IN CANADA ONLY
This product is a Schedule IV CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References: