1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $\text{C}_{25}\text{H}_{20}\text{F}\text{N}_{3}\text{O} \cdot \frac{1}{2}\text{H}_{2}\text{O}$

**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% 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\(_{\text{V}}\)7.1 (KCNQ1) channels. Activates the cardiac I\(_{\text{ks}}\) current that decreases action potential duration (APD) in cardiac myocytes.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C\(_{25}\)H\(_{30}\)FN\(_3\)O.\(_{\frac{1}{2}}\)H\(_2\)O
- **Batch Molecular Weight:** 406.45
- **Physical Appearance:** Off-white solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**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:**

