Product Name: Co 102862
Catalog No.: 2642
Batch No.: 1
CAS Number: 181144-66-1
IUPAC Name: 2-[[4-(4-Fluorophenoxy)phenyl]methylene]hydrazinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{14}H_{12}FN_3O_2 \cdot \frac{1}{2}H_2O \)
Batch Molecular Weight: 282.27
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.95 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 99.5% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>59.57</td>
<td>59.83</td>
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<tr>
<td>Hydrogen</td>
<td>4.64</td>
<td>4.42</td>
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<tr>
<td>Nitrogen</td>
<td>14.89</td>
<td>14.8</td>
</tr>
</tbody>
</table>

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

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Catalog No.: 2642  Batch No.: 1

CAS Number: 181144-66-1
IUPAC Name: 2-[4-(4-Fluorophenoxy)phenyl]methylene]hydrazinecarboxamide

Description:
Broad spectrum, state-dependent blocker of voltage-gated sodium channels. Displays ~ 80-fold higher affinity for inactivated Na+ channels compared to channels in the resting state. Anticonvulsant; displays activity in rodent models of tonic/clonic and partial-complex seizures.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{15}$H$_{16}$F$_2$N$_2$O$_3$·½H$_2$O
Batch Molecular Weight: 282.27
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

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: