

Certificate of Analysis

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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: C₁₄H₁₂FN₃O₂·½H₂O

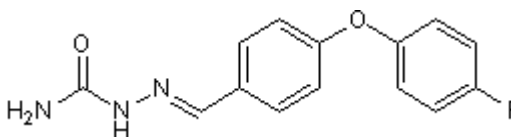
Batch Molecular Weight: 282.27

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.95 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.57	4.64	14.89
Found	59.83	4.42	14.8

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

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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:

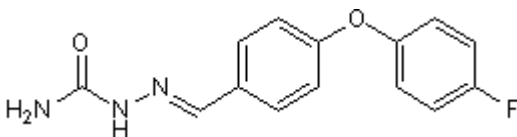
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Batch Molecular Weight: 282.27

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Ilyin *et al* (2005) V102862 (Co 102862): a potent, broad-spectrum state-dependent blocker of mammalian voltage-gated sodium channels. *Br.J.Pharmacol.* **144** 801. PMID: 15778702.

Ilyin *et al* (2006) Pharmacology of 2-[4-(4-chloro-2-fluorophenoxy)phenyl]-pyrimidine-4-carboxamide: a potent, broad-spectrum state-dependent sodium channel blocker for treating pain states. *J.Pharmacol.Exp.Ther.* **318** 1083. PMID: 16728593.

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.

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