

Certificate of Analysis

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Product Name: ICA 110381

Catalog No.: 4950

Batch No.: 1

CAS Number: 325457-99-6

IUPAC Name: 4-Chloro-N-(6-chloro-3-pyridinyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_8Cl_2N_2O \cdot \frac{1}{4}H_2O$

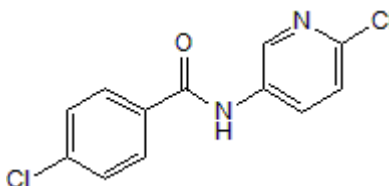
Batch Molecular Weight: 271.61

Physical Appearance: Brown solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.07	3.15	10.31
Found	53.33	2.92	10.21

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

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Description:

K_v7.2/7.3 activator (EC₅₀ = 0.38 μM). Decreases neuronal excitability in CA1 hippocampal neurons. Exhibits anticonvulsive properties in amygdala-kindled rats, a model for complex partial seizures.

Physical and Chemical Properties:

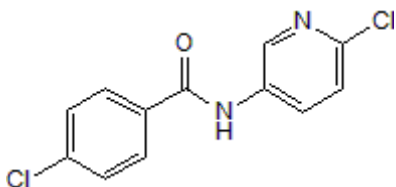
Batch Molecular Formula: C₁₂H₈Cl₂N₂O.¼H₂O

Batch Molecular Weight: 271.61

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Amato et al (2011) N-Pyridyl and Pyrimidine Benzamides as KCNQ2/Q3 Potassium Channel Openers for the Treatment of Epilepsy. ACS Med.Chem.Lett. **2** 481.

Boehlen et al (2013) The new KCNQ2 activator 4-Chlor-N-(6-chlor-pyridin-3-yl)-benzamid displays anticonvulsant potential. Br.J.Pharmacol. **168** 1182. PMID: 23176257.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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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