

Certificate of Analysis

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Product Name: CID 2011756

Catalog No.: 4644

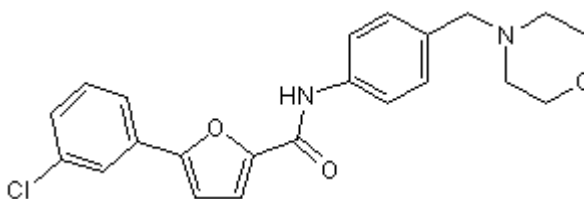
Batch No.: 1

CAS Number: 638156-11-3

IUPAC Name: 5-(3-Chlorophenyl)-*N*-[4-(4-morpholinylmethyl)phenyl]-2-furancarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₁ClN₂O₃
Batch Molecular Weight: 396.87
Physical Appearance: Off-white solid
Solubility: DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.58	5.33	7.06
Found	66.69	5.48	6.98

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

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IUPAC Name: 5-(3-Chlorophenyl)-N-[4-(4-morpholinylmethyl)phenyl]-2-furancarboxamide

Description:

Protein kinase D (PKD) inhibitor (IC₅₀ values are 0.6, 0.7 and 3.2 μM for PKD2, PKD3 and PKD1 respectively). Cell permeable (EC₅₀ = 10 μM for PKD1 inhibition). ATP-competitive.

Physical and Chemical Properties:

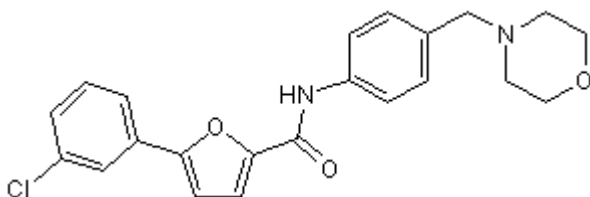
Batch Molecular Formula: C₂₂H₂₁ClN₂O₃

Batch Molecular Weight: 396.87

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 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:

Sharlow *et al* (2011) Discovery of diverse small molecule chemotypes with cell-based PKD1 inhibitory activity. *PLoS One* **6** e25134. PMID: 21998636.

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