

Certificate of Analysis

Product Name: CCG 203971

Catalog No.: 5277

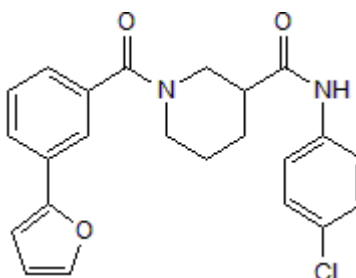
Batch No.: 1

CAS Number: 1443437-74-8

IUPAC Name: *N*-(4-Chlorophenyl)-1-[3-(2-furanyl)benzoyl]-3-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₁ClN₂O₃
Batch Molecular Weight: 408.88
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.56	5.18	6.85
Found	67.26	5.1	6.8

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

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Description:

Antifibrotic agent; inhibits fibrosis by targeting the MRTF/SRF gene transcription pathway. Selectively inhibits proliferation of SSc-derived dermal fibroblasts but not that of normal fibroblasts. Inhibits expression of CTGF, α -SMA, and COL1A2 in SSc fibroblasts as well as in LPA and in TGF β -stimulated fibroblasts. Prevents bleomycin-induced skin thickening and collagen deposition in vivo. Also suppresses PC-3 cell migration in scratch wound assays (IC₅₀ = 4.2 μ M).

Physical and Chemical Properties:

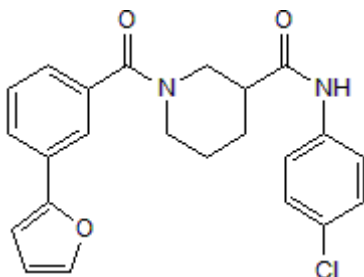
Batch Molecular Formula: C₂₃H₂₁ClN₂O₃

Batch Molecular Weight: 408.88

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Bell et al (2013) Optimization of novel nipecotic bis(amide) inhibitors of the Rho/MKL1/SRF transcriptional pathway as potential anti-metastasis agents. *Bioorg.Med.Chem.Lett.* **23** 3826. PMID: 23707258.

Haak et al (2014) Targeting the myofibroblast genetic switch: inhibitors of myocardin-related transcription factor/serum response factor-regulated gene transcription prevent fibrosis in a murine model of skin injury. *J.Pharmacol.Exp.Ther.* **349** 480. PMID: 24706986.

Michel et al (2014) Hope for disease-modifying treatment of systemic sclerosis/scleroderma. *J.Pharmacol.Exp.Ther.* **350** 480. PMID: 25053235.

Storage: Store at +4°C

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.

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