TOCRIS
a bio-techne brand

Print Date: Mar 10th 2022

Certificate of Analysis

www.tocris.com

Product Name: **T 0070907** **Catalog No.: 2301** **Batch No.: 1**

CAS Number: 313516-66-4

IUPAC Name: 2-Chloro-5-nitro-*N*-4-pyridinylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_8N_3O_3Cl$

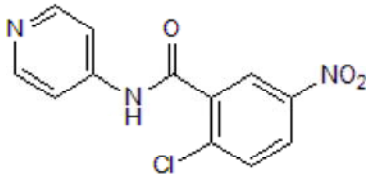
Batch Molecular Weight: 277.67

Physical Appearance: White solid

Solubility: DMSO to 100 mM
1eq. HCl to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.48 (Chloroform:Methanol [9:1])

HPLC: Shows >99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.91	2.9	15.13
Found	51.53	2.98	14.85

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

Product Name: **T 0070907** **Catalog No.: 2301** **Batch No.: 1**

CAS Number: 313516-66-4

IUPAC Name: 2-Chloro-5-nitro-*N*-4-pyridinylbenzamide

Description:

T 0070907 is a potent and selective irreversible PPARγ antagonist (IC_{50} = 1 nM). Displays > 800-fold selectivity for PPARγ over PPARα and PPARδ. Blocks transcriptional activity of PPARγ in vitro and inhibits Rosiglitazone-induced adipogenesis.

Physical and Chemical Properties:

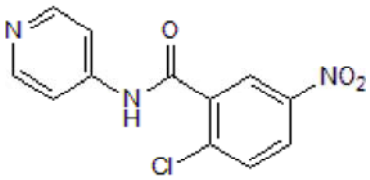
Batch Molecular Formula: $C_{12}H_8N_3O_3Cl$

Batch Molecular Weight: 277.67

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
1eq. HCl 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:

Schaefer *et al* (2005) Peroxisome proliferator-activated receptor γ inhibition prevents adhesion to the extracellular matrix and induces anoikis in hepatocellular carcinoma cells. Cancer Res. ***65*** 2251. PMID: 15781638.

Rockwell and Kaminski (2004) A cyclooxygenase metabolite of anandamide causes inhibition of interleukin-2 secretion in murine splenocytes. J.Pharmacol.Exp.Ther. ***311*** 683. PMID: 15284281.

Lee *et al* (2002) T0070907, a selective ligand for peroxisome proliferator-activated receptor γ, functions as an antagonist of biochemical and cellular activities. J.Biol.Chem. ***277*** 19649. PMID: 11877444.