# TOCRIS a biotechne brand

#### Print Date: Jan 14th 2016

# **Certificate of Analysis**

### www.tocris.com

Product Name: Piclamilast

Catalog No.: 4525 Batch No.: 1

CAS Number: IUPAC Name: 144035-83-6

3-(Cyclopentyloxy)-N-(3,5-dichloro-4-pyridinyl)-4-methoxybenzamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure: C<sub>18</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub>

381.25 White solid DMSO to 100 mM ethanol to 20 mM Store at RT

MeO CI Ö CI

2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 100% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	56.7	4.76	7.35
Found	56.7	4.9	7.33

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

# TOCRIS a biotechne brand

## Print Date: Jan 14<sup>th</sup> 2016

### www.tocris.com

#### Product Name: Piclamilast

Catalog No.: 4525 B

Batch No.: 1

CAS Number: IUPAC Name:

3-(Cyclopentyloxy)-N-(3,5-dichloro-4-pyridinyl)-4-methoxybenzamide

#### **Description:**

Potent and selective inhibitor of phosphodiesterase (PDE) 4 ( $IC_{50} = 1$  nM at PDE4 from human neutrophils). Displays >19,000-fold selectivity over other PDE isoenzymes. Exhibits anti-inflammatory effects in models of allergic inflammation. Also inhibits LTB<sub>4</sub> synthesis in human neutrophils ( $IC_{50} = 2$  nM).

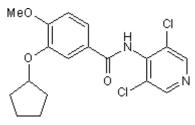
144035-83-6

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>18</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub> Batch Molecular Weight: 381.25 Physical Appearance: White solid

#### Minimum Purity: >99%

#### **Batch Molecular Structure:**



#### Storage: Store at RT

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.

#### **References:**

**Raeburn** *et al* (1994) Anti-inflammatory and bronchodilator properties of RP 73401, a novel and selective phosphodiesterase type IV inhibitor. Br.J.Pharmacol. **113** 1423. PMID: 7889300.

Hatzelmann and Schudt (2001) Anti-inflammatory and immunomodulatory potential of the novel PDE4 inhibitor roflumilast in vitro. J.Pharmacol.Exp.Ther. **297** 267. PMID: 11259554.

**Zhao** *et al* (2003) Inhibitor binding to type 4 phosphodiesterase (PDE4) assessed using [<sup>3</sup>H]piclamilast and [<sup>3</sup>H]rolipram. J.Pharmacol.Exp.Ther. **305** 565. PMID: 12704225.

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