# Certificate of Analysis

## Print Date: Jan 18th 2016

www.tocris.com

#### Product Name: NBI 27914 hydrochloride

CAS Number: IUPAC Name:

Storage:

TOCR

a biotechne brand

1215766-76-9 5-Chloro-*N*-(cyclopropylmethyl)-2-methyl-*N*-propyl-*N*-(2,4,6-trichlorophenyl)-4,6-pyrimidinediamine hydrochloride

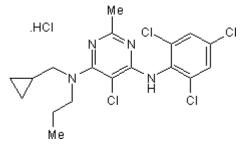
### 1. PHYSICAL AND CHEMICAL PROPERTIES

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

**Batch Molecular Structure:** 

C<sub>18</sub>H<sub>20</sub>Cl<sub>4</sub>N<sub>4</sub>.HCl 470.66 White solid ethanol to 100 mM DMSO to 100 mM

Store at RT



## 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: R<sub>f</sub> = 0.42 (Ethyl acetate:Petroleum ether [9:1])

Shows >99% purity

Consistent with structure

Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	45.94	4.5	11.9

medical	40.04	7.0	11.5
Found	45.89	4.62	11.61

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

#### Catalog No.: 1591 Batch

Batch No.: 2

## TOCRIS a bio-techne brand

Batch No.: 2

## www.tocris.com

#### Product Name: NBI 27914 hydrochloride

CAS Number: 1215766-76-9

IUPAC Name: 5-Chloro-*N*-(cyclopropylmethyl)-2-methyl-*N*-propyl-*N*-(2,4,6-trichlorophenyl)-4,6-pyrimidinediamine hydrochloride

#### **Description:**

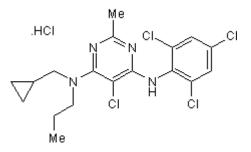
Selective, non-peptide corticotropin-releasing factor<sub>1</sub> (CRF<sub>1</sub>) receptor antagonist ( $K_i = 1.7$  nM); has no activity at CRF<sub>2</sub> receptors. Blocks behavioral seizures in vivo.

#### Physical and Chemical Properties:

Batch Molecular Formula: C<sub>18</sub>H<sub>20</sub>Cl<sub>4</sub>N<sub>4</sub>.HCl Batch Molecular Weight: 470.66 Physical Appearance: White solid

#### Minimum Purity: >99%

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



#### Storage: Store at RT

Solubility & Usage Info: ethanol to 100 mM DMSO 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).

Catalog No.: 1591

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:**

**Chen** *et al* (1996) Design and synthesis of a series of non-peptide high-affinity human corticotropin-releasing factor<sub>1</sub> receptor antagonists. J.Med.Chem. **39** 4358. PMID: 8893829.

**Baram** *et al* (1997) The CRF<sub>1</sub> receptor mediates the excitatory actions of corticotropin releasing factor (CRF) in the developing rat brain: in vivo evidence using a novel, selective, non-peptide CRF receptor antagonist. Brain Res. **770** 89. PMID: 9372207.

**McCarthy** *et al* (1999) Recent advances with the CRF<sub>1</sub> receptor: design of small molecule inhibitors, receptor subtypes and clinical indications. Curr.Pharm.Des. **5** 289. PMID: 10213797.

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