# **Certificate of Analysis**

## Print Date: Jan 13th 2016

Batch No.: 2

www.tocris.com

## Product Name: ICI 199,441 hydrochloride

\_\_\_\_\_

Catalog No.: 0778

CAS Number: IUPAC Name:

TOCRIS

a biotechne brand

115199-84-3

2-(3,4-Dichlorophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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

Storage: Batch Molecular Structure:

C21H24CI2N2O.HCI 427.8 White solid DMSO to 100 mM ethanol to 50 mM Store at RT

.HCI CI Ο CI MeH

## 2. ANALYTICAL DATA

TLC: Melting Point: HPLC: <sup>1</sup>H NMR: Optical Rotation: Microanalysis:

R <sub>f</sub> = 0.55 (Dichloromethane:Methanol:Ammonia soln. [95:5:0.1])
Between 227 - 234°C(Dec)
Shows 100% purity
Consistent with structure
$[\alpha]_{D}$ = +146.7 (Concentration = 1, Solvent = Ethanol)
Carbon Hydrogen Nitrogen

Theoretical	58.96	5.89	6.55	000
Found	58.96	5.82	6.5	000

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

## OCR a biotechne brand

## Print Date: Jan 13th 2016

Batch No.: 2

## www.tocris.com

### Product Name: ICI 199,441 hydrochloride

CAS Number: 115199-84-3

2-(3,4-Dichlorophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide hydrochloride **IUPAC Name:** 

## **Description:**

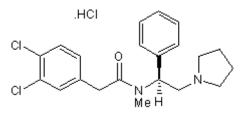
Highly potent  $\kappa$  agonist, 146-fold more active than U-50488 (Cat. No. 0495) in vitro.

## **Physical and Chemical Properties:**

Batch Molecular Formula: C21H24Cl2N2O.HCl Batch Molecular Weight: 427.8 Physical Appearance: White solid

### Minimum Purity: >99%

**Batch Molecular Structure:** 



### Storage: Store at RT

Solubility & Usage Info: DMSO to 100 mM ethanol to 50 mM

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.: 0778

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:**

Barlow et al (1991) Structure/activity studies related to 2-(3,4-dichlorophenyl)-N-methyl-N-[2-(1-pyrrolidinyl)-1-substituted-ethyl] acetamides: a novel series of potent and selective k-opioid agonists. J.Med.Chem. 34 3149. PMID: 1659636.

Costello et al (1991) 2-(3.4-Dichlorophenyl)-N-methyl-N-[2-(1-pyrrolidinyl)-1-substituted-ethyll-acetamides: the use of conformational analysis in the development of a novel series of potent opioid  $\kappa$  agonists. J.Med.Chem. **34** 181. PMID: 1846918.

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

**Stability and Solubility Advice:**