# **Certificate of Analysis**

# Print Date: Jan 8<sup>th</sup> 2016

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## Product Name: ICI 204,448 hydrochloride

CAS Number: IUPAC Name:

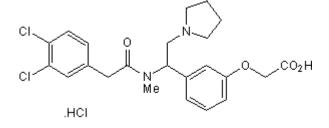
TOCRIS

a biotechne brand

121264-04-8 (*RS*)-[3-[1-[[(3,4-Dichlorophenyl)acetyl]methylamino]-2-(1-pyrrolidinyl)ethyl]phenoxy]acetic acid hydrochloride

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure:  $C_{23}H_{26}CI_2N_2O_4$ .HCI.  $\frac{1}{2}H_2O$ 510.85 Off-white solid DMSO to 100 mM Store at RT



## 2. ANALYTICAL DATA

Melting Point: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Between 214 - 216°C(dec) Shows >98.1% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

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Theoretical	54.08	5.52	5.48
Found	54.01	5.23	5.39

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

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Catalog No.: 0822 Batch No.: 4

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## Product Name: ICI 204,448 hydrochloride

CAS Number: 121264-04-8 IUPAC Name: (*RS*)-[3-[1-[](3

(RS)-[3-[1-[[(3,4-Dichlorophenyl)acetyl]methylamino]-2-(1-pyrrolidinyl)ethyl]phenoxy]acetic acid hydrochloride

### Description:

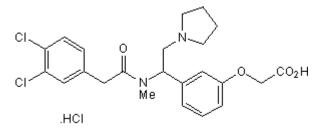
Peripherally acting κ agonist.

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

Batch Molecular Formula: C<sub>23</sub>H<sub>26</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>4</sub>.HCl.<sup>1</sup>/<sub>2</sub>H<sub>2</sub>O Batch Molecular Weight: 510.85 Physical Appearance: Off-white solid

#### Minimum Purity: >98%

**Batch Molecular Structure:** 



#### Storage: Store at RT

Solubility & Usage Info: 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.: 0822

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:**

**Shaw** *et al* (1989) ICI-204,448: a κ-opioid agonist with limited access to the CNS. Br.J.Pharmacol. **96** 986. PMID: 2568146. **Keïta** *et al* (1995) Antinociceptive effect of a κ-opioid receptor agonist that minimally crosses the blood-brain barrier (ICI 204448) in a rat model of mononeuropathy. Eur.J.Pharmacol. **277** 275. PMID: 7493620.

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