

**Product Name:** (-)-U-50488 hydrochloride

**Catalog No.:** 0496

**Batch No.:** 5

CAS Number: 114528-79-9

IUPAC Name: *trans*-(-)-3,4-Dichloro-*N*-methyl-*N*-[2-(1-pyrrolidinyl)cyclohexyl]benzeneacetamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>26</sub>Cl<sub>2</sub>N<sub>2</sub>O.HCl.¼H<sub>2</sub>O

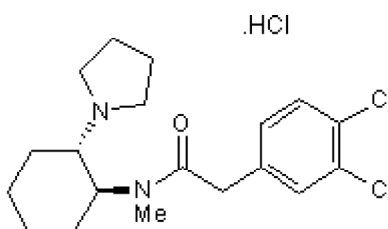
**Batch Molecular Weight:** 410.29

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.35 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.62	6.76	6.83
Found	55.53	6.68	6.73

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

**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 Name:** (-)-U-50488 hydrochloride

**Catalog No.:** 0496

**5**

CAS Number: 114528-79-9

IUPAC Name: *trans*-(*-*)-3,4-Dichloro-*N*-methyl-*N*-[2-(1-pyrrolidinyl)cyclohexyl]benzeneacetamide hydrochloride

**Description:**

(-)-U-50488 hydrochloride is a more active enantiomer of (±)-U-50488. Racemate and (+)-enantiomer also available.

**Physical and Chemical Properties:**

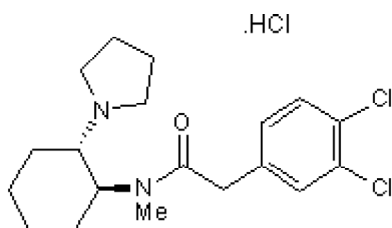
Batch Molecular Formula: C<sub>19</sub>H<sub>26</sub>Cl<sub>2</sub>N<sub>2</sub>O.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 410.29

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water 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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Zhu *et al*** (1998) Agonist-induced desensitization and down-regulation of the human kappa opioid receptor expressed in chinese hamster ovary cells. *J.Pharmacol.Exp.Ther.* **285** 28. PMID: 9535991.

**Morrone *et al*** (1993) Withdrawal contractures of guinea-pig isolated ileum after acute activation of κ opioid receptors. *Br.J.Pharmacol.* **109** 48. PMID: 8388301.

**Reddy and Bhargava** (1993) Effect of chronic administration of U-50,488H, a kappa opioid receptor agonist on central DA (D<sub>2</sub>) receptors of the rat. *Eur.J.Pharmacol.* **235** 23. PMID: 8390939.

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

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