

Certificate of Analysis

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Product Name: (-)-U-50488 hydrochloride

Catalog No.: 0496

Batch No.: 6

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: C₁₉H₂₆Cl₂N₂O.HCl.H₂O

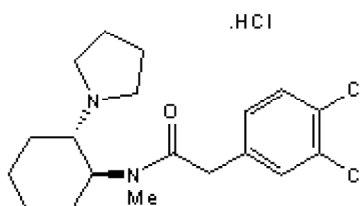
Batch Molecular Weight: 423.81

Physical Appearance: White solid

Solubility: water to 20 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	53.85	6.9	6.61
Found	52.94	7	6.29

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

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Description:

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

Physical and Chemical Properties:

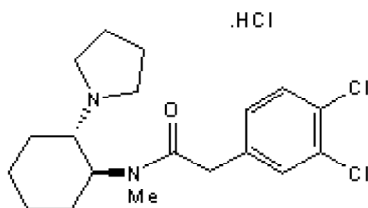
Batch Molecular Formula: C₁₉H₂₆Cl₂N₂O.HCl.H₂O

Batch Molecular Weight: 423.81

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 20 mM

DMSO to 100 mM

Solutions in water may appear hazy or as a fine suspension.

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 (D₂) receptors of the rat. *Eur.J.Pharmacol.* **235** 23. PMID: 8390939.

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