

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: C₁₉H₂₆Cl₂N₂O.HCl.¼H₂O

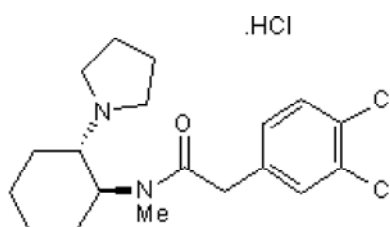
Batch Molecular Weight: 410.29

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

Chiral HPLC: Shows 100% purity

¹H 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

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Description:

More active enantiomer of (±)-U-50488. Racemate and (+)-enantiomer also available.

Physical and Chemical Properties:

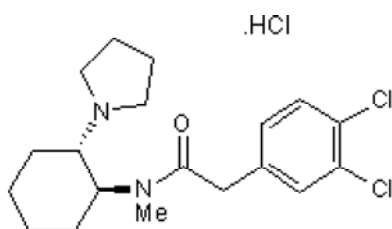
Batch Molecular Formula: C₁₉H₂₆Cl₂N₂O.HCl.¼H₂O

Batch Molecular Weight: 410.29

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate 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. 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:

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

De Costa et al (1987) Synthesis and absolute configuration of optically pure enantiomers of a κ-opioid receptor selective antagonist. *FEBS Lett.* **223** 335. PMID: 2822490.

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