

Product Name: (+)-U-50488 hydrochloride

Catalog No.: 0471

Batch No.: 2

CAS Number: 114528-81-3

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

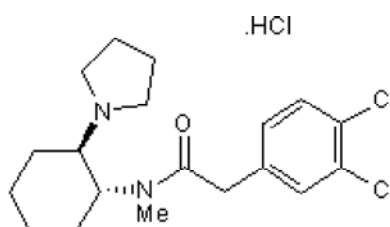
Batch Molecular Weight: 423.81

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.48 (Chloroform:Methanol:Ammonia soln. [92:7:0.3])

HPLC: Shows 98.9% 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	53.98	6.73	6.52

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Description:

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

Physical and Chemical Properties:

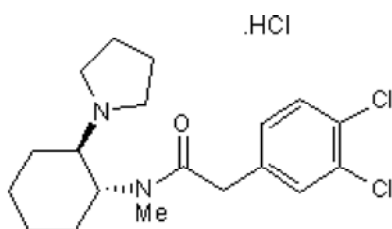
Batch Molecular Formula: C₁₉H₂₆Cl₂N₂O.HCl.H₂O

Batch Molecular Weight: 423.81

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 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:

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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