

**Product Name:** DIPPA hydrochloride

**Catalog No.:** 0794

**Batch No.:** 5

CAS Number: 155512-52-0

IUPAC Name: 2-(3,4-Dichlorophenyl)-N-methyl-N-[(1S)-1-(3-isothiocyanatophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>23</sub>Cl<sub>2</sub>N<sub>3</sub>OS.HCl.¼H<sub>2</sub>O

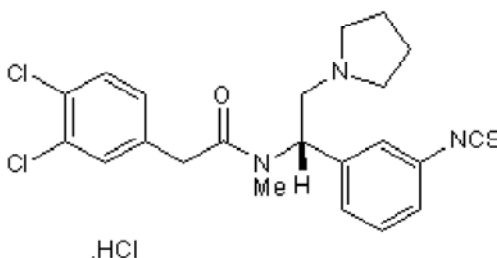
**Batch Molecular Weight:** 489.37

**Physical Appearance:** Yellow solid

**Solubility:** ethanol to 30 mM  
DMSO to 50 mM

**Storage:** Desiccate at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.8 (Dichloromethane:Methanol [98:2])

**HPLC:** Shows 99.7% purity

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

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +158.1 (Concentration = 0.48, Solvent = Acetonitrile)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54	5.05	8.59
Found	53.97	4.87	8.53

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

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**Description:**

DIPPA hydrochloride is an an irreversible and selective antagonist at the  $\kappa$  receptor, with persistent effect in vivo.

**Physical and Chemical Properties:**

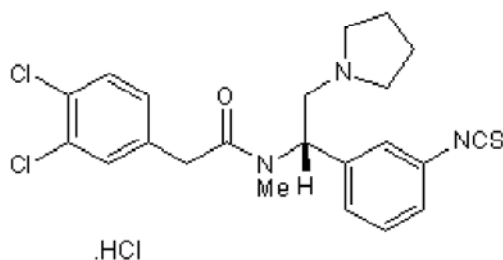
Batch Molecular Formula: C<sub>22</sub>H<sub>23</sub>Cl<sub>2</sub>N<sub>3</sub>OS.HCl.1/4H<sub>2</sub>O

Batch Molecular Weight: 489.37

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

ethanol to 30 mM

DMSO to 50 mM

**CAUTION** - This product has been shown to undergo decomposition in aqueous solution. We estimate that at room temperature up to 20% decomposition occurs after 2 hours. We therefore recommend that solutions of this product be made up and used as rapidly as possible.

**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:**

**Chang et al** (1994)  $\kappa$  opioid receptor selective affinity labels: Electrophilic benzeneacetamides as  $\kappa$ -selective opioid antagonists. *J.Med.Chem.* **37** 4490. PMID: 7799399.

**Chang et al** (1994) 2-(3,4-Dichlorophenyl)-N-methyl-N-[(1S)-1-(3-isothiocyanatophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide: an opioid receptor affinity label that produces selective and long lasting  $\kappa$  antagonism in mice. *J.Med.Chem.* **37** 1547. PMID: 8201586.

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