

Product Name: Cyprodime hydrochloride

Catalog No.: 2601

Batch No.: 5

CAS Number: 2387505-50-0

IUPAC Name: 17-(Cyclopropylmethyl)-4,14-dimethoxymorphinan-6-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₉NO₃.HCl.½H₂O

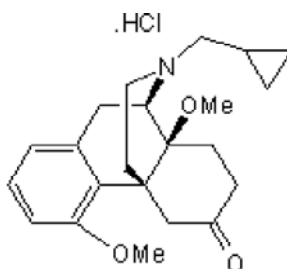
Batch Molecular Weight: 400.94

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Dichloromethane:Methanol [9:1])

HPLC: Shows >99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.9	7.79	3.49
Found	65.82	7.8	3.52

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

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CAS Number: 2387505-50-0

IUPAC Name: 17-(Cyclopropylmethyl)-4,14-dimethoxymorphinan-6-one hydrochloride

Description:

Cyprodime hydrochloride is a selective μ -opioid receptor antagonist (K_i values are 5.4, 244.6 and 2187 nM for μ -, δ - and κ -opioid receptors respectively). Reduces levodopa-induced dyskinesia in the MPTP-lesioned primate model of Parkinson's disease.

Physical and Chemical Properties:

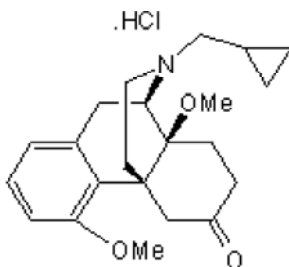
Batch Molecular Formula: $C_{22}H_{29}NO_3 \cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 400.94

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Henry et al (2001) μ - and δ -opioid receptor antagonists reduce levodopa-induced dyskinesia in the MPTP-lesioned primate model of Parkinson's disease. *Exp.Neurol.* **171** 139. PMID: 11520128.

Marki et al (1999) μ -opioid receptor specific antagonist cyprodime: characterization by in vitro radioligand and [³⁵S]GTP γ S binding assays. *Eur.J.Pharmacol.* **383** 209. PMID: 10585536.

Schmidhammer et al (1995) Synthesis and biological evaluation of 14-alkoxymorphinans. 11. 3-hydroxycyprodime and analogues: opioid antagonist profile in comparison to cyprodime. *J.Med.Chem.* **38** 3071. PMID: 7636870.

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