

Certificate of Analysis

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Product Name: AR-M 1000390 hydrochloride

Catalog No.: 4335

Batch No.: 3

CAS Number: 209808-47-9

IUPAC Name: *N,N*-Diethyl-4-(phenyl-4-piperidinylidenemethyl)-benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₈N₂O.HCl.½H₂O

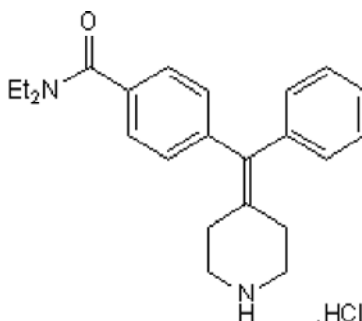
Batch Molecular Weight: 393.95

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.18 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.12	7.68	7.11
Found	70.31	7.44	7.09

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

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Description:

Non-peptidic, low-internalizing δ -selective opioid receptor agonist; derivative of SNC 80 (Cat. No. 0764). Does not trigger acute desensitization of the analgesic response; reduces CFA-induced hyperalgesia. Brain penetrant following systemic administration.

Physical and Chemical Properties:

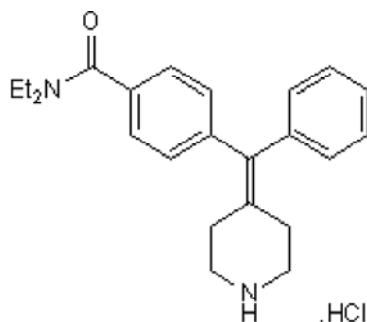
Batch Molecular Formula: $C_{23}H_{28}N_2O \cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 393.95

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Pradhan *et al* (2010) Ligand-directed trafficking of the δ -opioid receptor *in vivo*: Two paths toward analgesic tolerance. *J.Neurosci.* **30** 16459. PMID: 21147985.

Marie *et al* (2003) Pharmacological characterization of AR-M1000390 at human opioid delta receptors. *Life Sci.* **73** 1691. PMID: 12875901.

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