

Certificate of Analysis

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Product Name: JP 1302 dihydrochloride

Catalog No.: 2666

Batch No.: 2

CAS Number: 1259314-65-2

IUPAC Name: *N*-[4-(4-Methyl-1-piperazinyl)phenyl]-9-acridinamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₄N₄.2HCl.2½H₂O

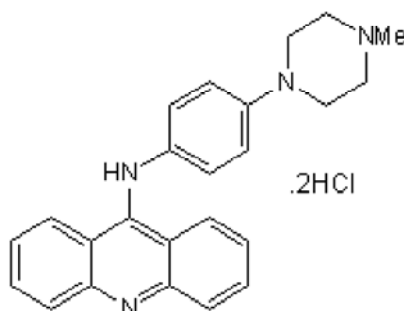
Batch Molecular Weight: 486.44

Physical Appearance: Brown solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	59.26	6.42	11.52	14.58
Found	59.14	6.28	11.3	14.67

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

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IUPAC Name: N-[4-(4-Methyl-1-piperazinyl)phenyl]-9-acridinamine dihydrochloride

Description:

JP 1302 dihydrochloride is an α_{2C} -adrenoceptor antagonist that displays ~ 50-fold selectivity over other α_2 -adrenoceptor subtypes (K_i values are 28, 1470, 1700 and 3150 nM for human α_{2C} , α_{2B} , α_{2D} and α_{2A} subtypes respectively). Potently antagonizes adrenalin-stimulated $^{35}\text{GTP}\gamma\text{S}$ binding in vitro ($K_B = 16$ nM) and produces antidepressant and antipsychotic-like effects in vivo.

Physical and Chemical Properties:

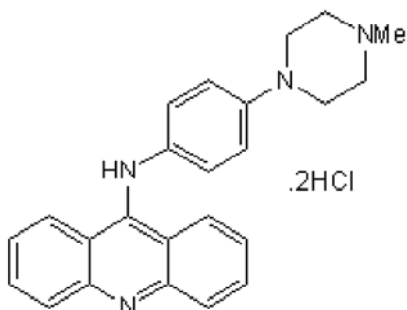
Batch Molecular Formula: $\text{C}_{24}\text{H}_{24}\text{N}_4 \cdot 2\text{HCl} \cdot 2\frac{1}{2}\text{H}_2\text{O}$

Batch Molecular Weight: 486.44

Physical Appearance: Brown solid

Minimum Purity: $\geq 99\%$

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

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45\text{-}60^\circ\text{C}$ 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:

Sallinen et al (2007) Pharmacological characterization and CNS effects of a novel highly selective α_{2C} -adrenoceptor antagonist JP-1302. *Br.J.Pharmacol.* **150** 391. PMID: 17220913.

Tricklebank (2007) JP-1302: a new tool to shed light on the roles of α_{2C} -adrenoceptors in brain. *Br.J.Pharmacol.* **150** 381. PMID: 17220912.

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