

**Product Name:** JP 1302 dihydrochloride

**Catalog No.:** 2666

**Batch No.:** 1

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:** C<sub>24</sub>H<sub>24</sub>N<sub>4</sub>.2HCl.H<sub>2</sub>O

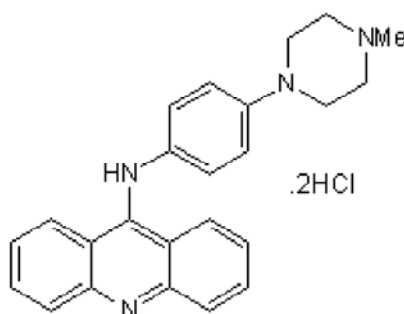
**Batch Molecular Weight:** 459.42

**Physical Appearance:** Orange/brown solid

**Solubility:** water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.38 (Chloroform:Methanol [9:1])

**HPLC:** Shows >99.5% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.75	6.14	12.2
Found	63.02	5.86	12.08

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

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**Description:**

JP 1302 dihydrochloride is an  $\alpha_{2C}$ -adrenoceptor antagonist that displays ~ 50-fold selectivity over other  $\alpha_2$ -adrenoceptor subtypes ( $K_i$  values are 28, 1470, 1700 and 3150 nM for human  $\alpha_{2C}$ ,  $\alpha_{2B}$ ,  $\alpha_{2D}$  and  $\alpha_{2A}$  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:**

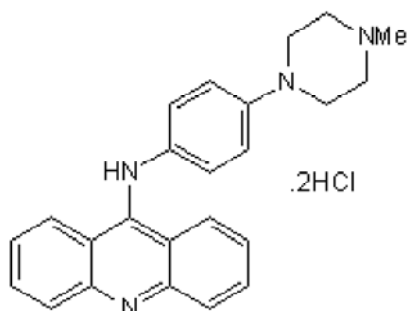
Batch Molecular Formula:  $\text{C}_{24}\text{H}_{24}\text{N}_4 \cdot 2\text{HCl} \cdot \text{H}_2\text{O}$

Batch Molecular Weight: 459.42

Physical Appearance: Orange/brown solid

**Minimum Purity:**  $\geq 99\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^\circ\text{C}$

**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  $-20^\circ\text{C}$  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  $\alpha_{2C}$ -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  $\alpha_{2C}$ -adrenoceptors in brain. *Br.J.Pharmacol.* **150** 381. PMID: 17220912.

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