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: $C_{24}H_{24}N_4.2HCl.H_2O$
   Batch Molecular Weight: 459.42
   Physical Appearance: Orange/brown solid
   Solubility:
   - water to 100 mM
   - DMSO to 5 mM
   Storage: Desiccate at -20°C

2. ANALYTICAL DATA

   TLC: $R_f = 0.38$ (Chloroform:Methanol [9:1])
   HPLC: Shows >99.5% purity
   $^1$H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   - Theoretical: C 62.75, H 6.14, N 12.2
   - Found: C 63.02, H 5.86, N 12.08

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Description:**
α₂C-adrenoceptor antagonist that displays ~50-fold selectivity over other α₂-adrenoceptor subtypes (Kᵣ values are 28, 1470, 1700 and 3150 nM for human α₂C, α₂B, α₂D and α₂A subtypes respectively). Potently antagonizes adrenalin-stimulated [³⁵S]GTPγS binding in vitro (Kᵣ = 16 nM) and produces antidepressant and antipsychotic-like effects in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₄H₂₉N₄·2HCl·H₂O
- **Batch Molecular Weight:** 459.42
- **Physical Appearance:** Orange/brown solid

**Minimum Purity:** >99%

**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:**