Product Name: Rimcazole dihydrochloride

CAS Number: 75859-03-9

IUPAC Name: 9-[3-(cis-3,5-Dimethyl-1-piperazinyl)propyl]-9H-carbazole dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C21H27N3.2HCl.H2O
- **Batch Molecular Weight:** 412.41
- **Physical Appearance:** White solid
- **Solubility:** water to 10 mM
  1eq. HCl to 100 mM
- **Storage:** Store at +4°C

2. ANALYTICAL DATA

- **TLC:** Rf = 0.66 (Dichloromethane:Methanol [85:15])
- **Melting Point:** Between 260 - 262°C(dec)
- **HPLC:** Shows 99.3% purity
- **¹H NMR:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Chlorine</th>
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<tr>
<td>Theoretical</td>
<td>61.16</td>
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<td>17.19</td>
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<td>Found</td>
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<td>7.24</td>
<td>10.18</td>
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Product Name: Rimcazole dihydrochloride
Catalog No.: 1497  Batch No.: 2

CAS Number: 75859-03-9
IUPAC Name: 9-[3-(cis-3,5-Dimethyl-1-piperazinyl)propyl]-9H-carbazole dihydrochloride

Description:
Antagonist at σ receptors (IC$_{50}$ values are 1480 and 386 nM at σ$_1$ and σ$_2$ receptors respectively). Also binds to the dopamine transporter (IC$_{50}$ = 57.6 nM) and inhibits dopamine uptake. Reduces the stimulatory effects of cocaine in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{21}$H$_{27}$N$_3$.2HCl.H$_2$O
Batch Molecular Weight: 412.41
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
- water to 10 mM
- 1eq. HCl 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:
Ferris et al (1986) Evidence that the potential antipsychotic agent rimcazole (BW 234U) is a specific, competitive antagonist of sigma sites in brain. Life Sci. 38 2329. PMID: 2873494.