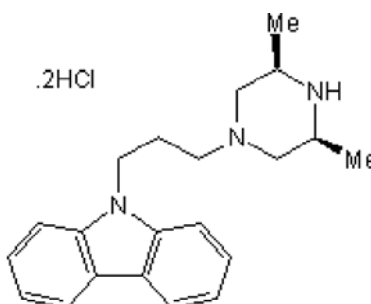


**Product Name:** Rimcazole dihydrochloride **Catalog No.:** 1497 **Batch No.:** 2  
**CAS Number:** 75859-03-9  
**IUPAC Name:** 9-[3-(*cis*-3,5-Dimethyl-1-piperazinyl)propyl]-9*H*-carbazole dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>27</sub>N<sub>3</sub>.2HCl.H<sub>2</sub>O  
**Batch Molecular Weight:** 412.41  
**Physical Appearance:** Pale purple solid  
**Solubility:** water to 10 mM  
 1eq. HCl to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.66 (Dichloromethane:Methanol [85:15])  
**Melting Point:** Between 260 - 262°C(dec)  
**HPLC:** Shows 99.0% purity  
<sup>1</sup>H NMR: Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	61.16	7.58	10.19	17.19
Found	61.48	7.24	10.18	17.31

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**Description:**

Rimcazole dihydrochloride is an antagonist at  $\sigma$  receptors ( $IC_{50}$  values are 1480 and 386 nM at  $\sigma_1$  and  $\sigma_2$  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:**

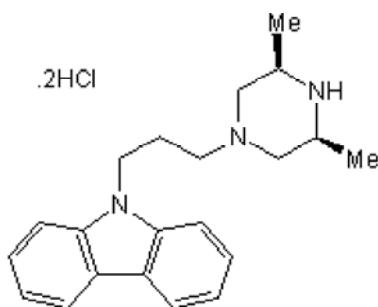
Batch Molecular Formula: C<sub>21</sub>H<sub>27</sub>N<sub>3</sub>.2HCl.H<sub>2</sub>O

Batch Molecular Weight: 412.41

Physical Appearance: Pale purple solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**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:**

**Matsumoto et al** (2001) Rimcazole analogs attenuate the convulsive effects of cocaine: correlation with binding to sigma receptors rather than DA transporters. *Neuropharmacology* **41** 878. PMID: 11684152.

**Husbands et al** (1997) Isothiocyanate derivatives of 9-[3-(*cis*-3,5-dimethyl-1-piperazinyl)propyl]-carbazole (Rimcazole): irreversible ligands for the DA transporter. *J.Med.Chem.* **40** 4340. PMID: 9435903.

**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.

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