

Certificate of Analysis

Product Name: RS 17053 hydrochloride

Catalog No.: 0985

Batch No.: 1

CAS Number: 169505-93-5

IUPAC Name: (N-[2-(2-Cyclopropylmethoxyphenoxy)ethyl]-5-chloro- α,α -dimethyl-1*H*-indole-3-ethanamine) hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₉N₂O₂Cl.HCl

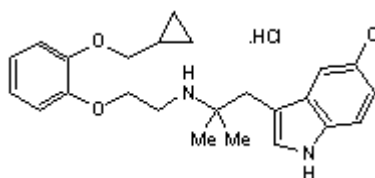
Batch Molecular Weight: 449.42

Physical Appearance: White solid

Solubility: ethanol to 10 mM
DMSO to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.22 (Ethyl acetate)

Melting Point: Between 204 - 206°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.14	6.73	6.23
Found	64.23	6.86	6.21

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

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Description:

α_{1A} -adrenoceptor antagonist, with very high affinity for α_{1A} receptors (pK_i and pA_2 estimates of 9.1 - 9.9) and a 30 - 100 fold selectivity over the α_{1B} and α_{1D} subtypes (pK_i and pA_2 estimates 7.7 - 7.8).

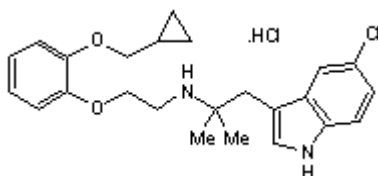
Physical and Chemical Properties:

Batch Molecular Formula: $C_{24}H_{29}N_2O_2Cl.HCl$

Batch Molecular Weight: 449.42

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM

DMSO to 50 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:

Ford et al (1995) Do α_{1A} (α_{1C})-adrenoceptors (AR) mediate prostatic smooth muscle contraction in man? Studies with a novel, selective α_{1A} -AR antagonist, RS 17053. *Br.J.Pharmacol.* **114** C25.

Ford et al (1996) RS 17053 (N-[2-(2-cyclopropylmethoxyphenoxy)ethyl]-5-chloro- α,α -dimethyl-1H-indole-3-ethanamine hydrochloride, a selective α_{1A} -adrenoceptor antagonist, displays low affinity for functional α_1 -adrenoceptors in human prostate: implications for adrenoceptor classification. *Mol.Pharmacol.* **49** 209. PMID: 8632751.

Marshall et al (1996) Different subtypes of α_{1A} -adrenoceptor mediating contraction of rat epididymal vas deferens, rat hepatic portal vein and human prostate distinguished by the antagonist RS 17053. *Br.J.Pharmacol.* **119** 407. PMID: 8886428.

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