

Certificate of Analysis

Product Name: ARC 239 dihydrochloride

Catalog No.: 0928

Batch No.: 5

CAS Number: 55974-42-0

IUPAC Name: 2-[2-(4-(2-Methoxyphenyl)piperazin-1-yl)ethyl]-4,4-dimethyl-1,3-(2*H*,4*H*)-isoquinolindione dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₉N₃O₃·2HCl·¼H₂O

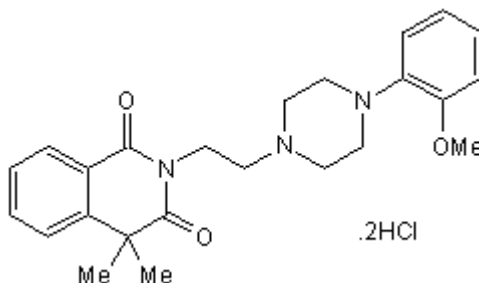
Batch Molecular Weight: 484.93

Physical Appearance: White solid

Solubility: DMSO to 100 mM
water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.73 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows >99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	chlorine
Theoretical	59.44	6.55	8.67	14.62
Found	59.46	6.5	8.58	14.26

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Description:

Selective α_{2B} adrenoceptor antagonist (pK_D values are 8.8, 6.7 and 6.4 at α_{2B} , α_{2A} , and α_{2D} receptors respectively). Also available as part of the α_2 -Adrenoceptor Tocriset™.

Physical and Chemical Properties:

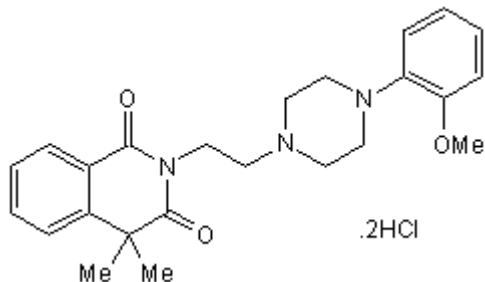
Batch Molecular Formula: $C_{24}H_{29}N_3O_3 \cdot 2HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 484.93

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

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 45-60°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:

Bylund *et al* (1988) Alpha-2A and alpha-2B adrenergic subtypes: antagonist binding in tissues and cell lines containing only one subtype. *J.Pharmacol.Exp.Ther.* **245** 600. PMID: 2835476.

Fuder and Selback (1993) Characterisation of sensory neurotransmission and its inhibition via α_{2B} -adrenoceptors and via non- α_2 adrenoceptors in rabbit iris. *Naunyn Schmiedebergs Arch.Pharmacol.* **347** 394. PMID: 7685502.

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