

**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:** C<sub>24</sub>H<sub>29</sub>N<sub>3</sub>O<sub>3</sub>·2HCl·¼H<sub>2</sub>O

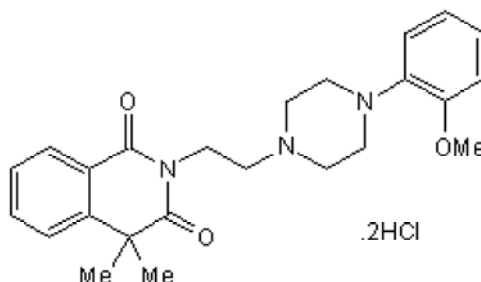
**Batch Molecular Weight:** 484.93

**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<sub>f</sub> = 0.73 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

**HPLC:** Shows >99% purity

**<sup>1</sup>H 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

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

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**Description:**

ARC 239 dihydrochloride is a selective  $\alpha_{2B}$  adrenoceptor antagonist ( $pK_D$  values are 8.8, 6.7 and 6.4 at  $\alpha_{2B}$ ,  $\alpha_{2A}$ , and  $\alpha_{2D}$  receptors respectively).

**Physical and Chemical Properties:**

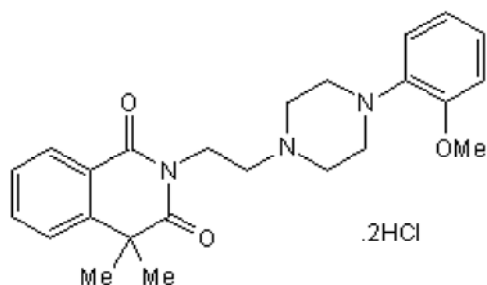
Batch Molecular Formula:  $C_{24}H_{29}N_3O_3 \cdot 2HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 484.93

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

**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.

**Licensing Information:**

Sold with the permission of Boehringer Ingelheim GmbH

**References:**

**Fuder and Selback** (1993) Characterisation of sensory neurotransmission and its inhibition via  $\alpha_{2B}$ -adrenoceptors and via non- $\alpha_2$  adrenoceptors in rabbit iris. *Naunyn Schmiedebergs Arch.Pharmacol.* **347** 394. PMID: 7685502.

**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.

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