

**Product Name:** Idazoxan hydrochloride

**Catalog No.:** 0793

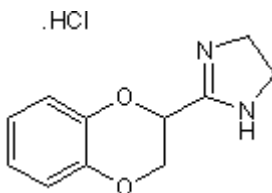
**Batch No.:** 5

CAS Number: 79944-56-2

IUPAC Name: 2-(1,4-Benzodioxan-2-yl)-2-imidazoline hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>·HCl  
**Batch Molecular Weight:** 240.69  
**Physical Appearance:** White crystalline solid  
**Solubility:** water to 100 mM  
 phosphate buffered saline to 50 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.49 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**Melting Point:** At 213°C  
**HPLC:** Shows >98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.89	5.44	11.63
Found	54.88	5.51	11.88

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**Description:**

$\alpha_2$ -adrenoceptor antagonist, and  $I_2$  ligand, selective over  $I_1$  sites (pK<sub>i</sub> values are 5.90, 7.22, 8.01, 7.43, and 7.7 for  $I_1$ ,  $I_2$ ,  $\alpha_{2A}$ ,  $\alpha_{2B}$ , and  $\alpha_{2C}$  receptors respectively).

**Physical and Chemical Properties:**

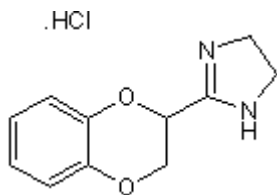
Batch Molecular Formula: C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>.HCl

Batch Molecular Weight: 240.69

Physical Appearance: White crystalline solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 100 mM

phosphate buffered saline 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:**

**Dabir** (1986) Idazoxan: a novel pharmacological tool for the study of  $\alpha_2$ -adrenoceptors. *J.Pharmacol.* **17** 113. PMID: 2875218.

**Michel and Ernsberger** (1992) Keeping an eye on the I site: imidazoline-preferring receptors. *TIPS* **13** 369. PMID: 1413085.

**Berdeu et al** (1995) Evidence for two different imidazoline sites on pancreatic B cells and vascular bed in rat. *Eur.J.Pharmacol.* **275** 91. PMID: 7774667.

**Eglen et al** (1998) 'Seeing through a glass darkly': casting light on imidazoline 'I' sites. *TIPS* **19** 381. PMID: 9786027.

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