

Certificate of Analysis

Product Name: Idazoxan hydrochloride

Catalog No.: 0793

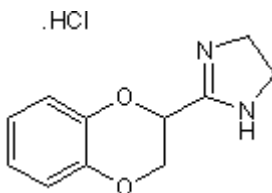
Batch No.: 5

CAS Number: 79944-56-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₂N₂O₂·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_f = 0.49 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 213°C
HPLC: Shows >98.8% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.89	5.44	11.63
Found	54.88	5.51	11.88

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

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Description:

α_2 -adrenoceptor antagonist, and I_2 ligand, selective over I_1 sites (pK_i values are 5.90, 7.22, 8.01, 7.43, and 7.7 for I_1 , I_2 , α_{2A} , α_{2B} , and α_{2C} receptors respectively).

Physical and Chemical Properties:

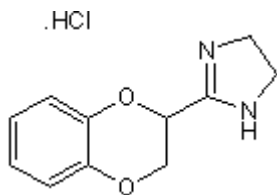
Batch Molecular Formula: C₁₁H₁₂N₂O₂.HCl

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 α_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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