

Certificate of Analysis

Product Name: Imiloxan hydrochloride

Catalog No.: 0986

Batch No.: 4

CAS Number: 81167-22-8

IUPAC Name: 2-(1-Ethyl-2-indazolyl)methyl-1,4-benzodioxan hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₆N₂O₂·HCl

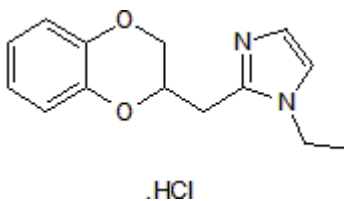
Batch Molecular Weight: 280.75

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 172 - 174°C

HPLC: Shows >99.3% purity

¹H NMR: Consistent with structure

¹³C NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.89	6.1	9.97
Found	59.6	6.16	9.87

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

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Description:

A moderately potent, but highly selective α_2 -adrenoceptor antagonist, the only reported selective antagonist at the α_{2B} -adrenoceptor not having potent α_1 -adrenoceptor antagonist activity.

Physical and Chemical Properties:

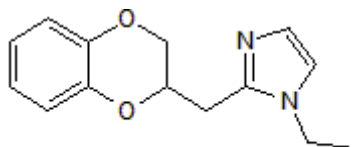
Batch Molecular Formula: C₁₄H₁₆N₂O₂.HCl

Batch Molecular Weight: 280.75

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



.HCl

Storage: Desiccate at RT

Solubility & Usage Info:

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:

Michel and Whiting (1981) 2-(2-Imidazolylmethyl)-1,4-benzodioxans, a series of selective α_2 -adrenoceptor antagonists. Br.J.Pharmacol. **74** 255P.

Michel et al (1990) Assessment of imiloxan as a selective α_{2B} -adrenoceptor antagonist. Br.J.Pharmacol. **99** 560. PMID: 1970500.

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