

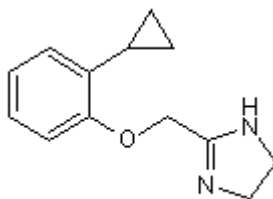
Certificate of Analysis

Product Name: Cirazoline hydrochloride
CAS Number: 40600-13-3
IUPAC Name: 2-(2-Cyclopropylphenoxy)methylimidazoline hydrochloride

Catalog No.: 0888 **Batch No.:** 10
EC Number: 254-995-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₆N₂O.HCl.¾H₂O
Batch Molecular Weight: 266.25
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



.HCl

2. ANALYTICAL DATA

TLC: R_f = 0.74 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
Melting Point: Between 185 - 187°C
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.64	7.01	10.52
Found	58.53	6.97	10.55

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

Product Information

www.tocris.com

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Catalog No.: 0888

Batch No.: 10

CAS Number: 40600-13-3

EC Number: 254-995-3

IUPAC Name: 2-(2-Cyclopropylphenoxy)methylimidazoline hydrochloride

Description:

Selective α_1 agonist. Also available as part of the α_1 -Adrenoceptor Tocriset™ and Mixed Adrenergic Tocriset™.

Physical and Chemical Properties:

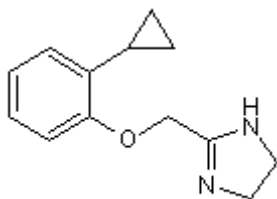
Batch Molecular Formula: C₁₃H₁₆N₂O.HCl.¾H₂O

Batch Molecular Weight: 266.25

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



.HCl

Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

DMSO 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:

Gellai and Ruffolo (1987) Renal effects of selective *alpha*-1 and *alpha*-2 adrenoceptor agonists in conscious normotensive rats. *J.Pharmacol.Exp.Ther.* **240** 723. PMID: 2882013.

Wikberg and Uklen (1990) Further characterisation of the guinea pig cerebral cortex idazoxan receptor: solubilization, distinction from the imidazole site, and demonstration of cirazoline as an idazoxan receptor-selective drug. *J.Neurochem.* **55** 192. PMID: 1972387.

Le Rouzic et al (1995) Binding of [³H]cirazoline to an imidazoline site in rat brain and kidney membranes. *Eur.J.Pharmacol.* **278** 261. PMID: 7589165.

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