

Certificate of Analysis

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Product Name: Prazosin hydrochloride

Catalog No.: 0623

Batch No.: 5

CAS Number: 19237-84-4

EC Number: 242-903-4

IUPAC Name: 1-(4-Amino-6,7-dimethoxy-2-quinazoliny)-4-(2-furanylcarbonyl)piperazine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁N₅O₄·HCl

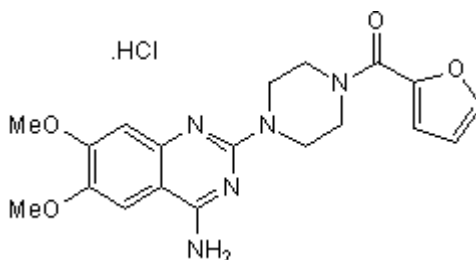
Batch Molecular Weight: 419.87

Physical Appearance: Off-white solid

Solubility: DMSO to 25 mM
ethanol to 5 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 54.35 5.28 16.68

Found 54.42 5.25 16.56

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

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Description:

α_1 and α_{2B} -adrenoceptor antagonist. Also a potent antagonist at the melatonin MT₃ receptor ($K_i = 10.2$ nM). Also available as part of the α_1 -Adrenoceptor Tocriset™ and Mixed Adrenergic Tocriset™.

Physical and Chemical Properties:

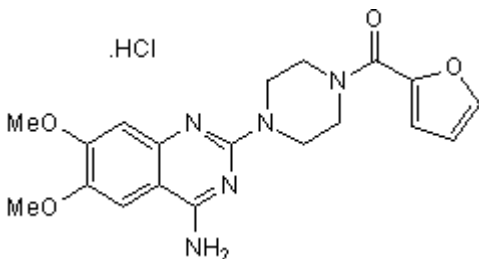
Batch Molecular Formula: C₁₉H₂₁N₅O₄.HCl

Batch Molecular Weight: 419.87

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 mM
ethanol to 5 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:

Merck Index **12** 7897.

Pickering and Niles (1990) Pharmacological characterization of melatonin binding sites in Syrian hamster hypothalamus. *Eur.J.Pharmacol.* **175** 71. PMID: 2157597.

Mathe et al (1996) Prazosin inhibits MK-801-induced hyperlocomotion and dopamine release in the nucleus accumbens. *Eur.J.Pharmacol.* **309** 1. PMID: 8864686.

Paul et al (1999) Characterisation of 2-[¹²⁵I]iodomelatonin binding sites in syrian hamster peripheral organs. *J.Pharmacol.Exp.Ther.* **290** 334. PMID: 10381796.

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