

**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:** C<sub>19</sub>H<sub>21</sub>N<sub>5</sub>O<sub>4</sub>.HCl

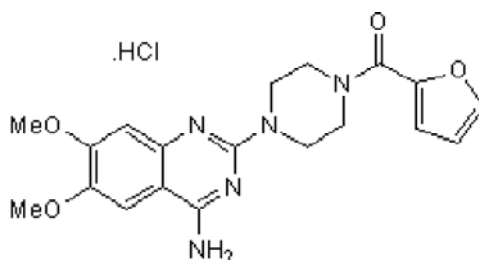
**Batch Molecular Weight:** 419.87

**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

**<sup>1</sup>H 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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

**Product Name:** Prazosin hydrochloride

**Catalog No.:** 0623

**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

**Description:**

Prazosin hydrochloride is an  $\alpha_1$  and  $\alpha_{2B}$ -adrenoceptor antagonist. Also a potent antagonist at the melatonin  $MT_3$  receptor ( $K_i = 10.2$  nM). In prostate cancer cells, Prazosin induces DNA damage stress, Cdk1 inactivation,  $G_2$  checkpoint arrest and apoptosis. In mice bearing prostate cancer xenografts, oral administration of Prazosin reduces tumor mass.

**Physical and Chemical Properties:**

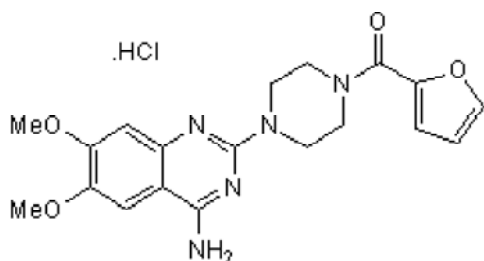
Batch Molecular Formula:  $C_{19}H_{21}N_5O_4 \cdot HCl$

Batch Molecular Weight: 419.87

Physical Appearance: Off-white solid

**Minimum Purity:**  $\geq 99\%$

**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:**

**Lin et al** (2007) Prazosin displays anticancer activity against human prostate cancers: targeting DNA and cell cycle. *Neoplasia* **9** 830. PMID: 17971903.

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

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

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956