

Certificate of Analysis

Product Name: Doxazosin mesylate

Catalog No.: 2964

Batch No.: 1

CAS Number: 77883-43-3

IUPAC Name: 4-Amino-2-[4-(1,4-benzodioxan-2-carbonyl)piperazin-1-yl]-6,7-dimethoxyquinazoline methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{25}N_5O_5 \cdot CH_3SO_3H$

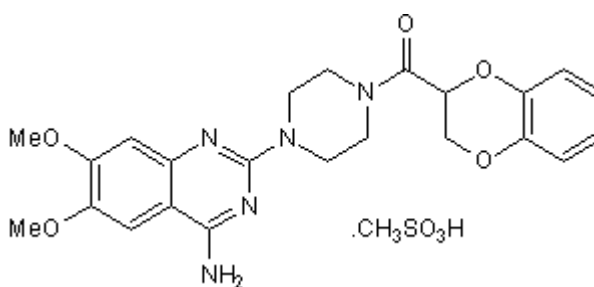
Batch Molecular Weight: 547.58

Physical Appearance: White solid

Solubility: DMSO to 75 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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Description:

Selective α_1 -adrenoceptor antagonist (pK_i values are 9.0, 8.5 and 8.4 for human α_{1B} , α_{1A} and α_{1D} receptors respectively). Displays antihypertensive activity.

Physical and Chemical Properties:

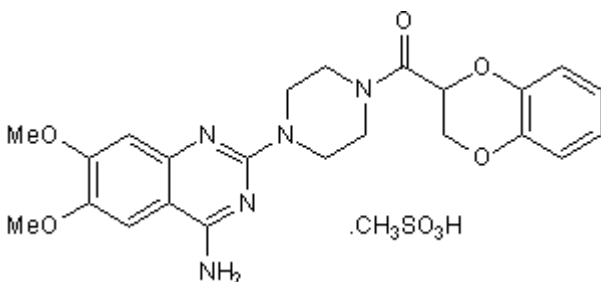
Batch Molecular Formula: $C_{23}H_{25}N_5O_5 \cdot CH_3SO_3H$

Batch Molecular Weight: 547.58

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 75 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:

Alabaster and Davey (1986) The α_1 -adrenoceptor antagonist profile of doxazosin: preclinical pharmacology. *Br.J.Clin.Pharmacol.* **21** 9S. PMID: 2871857.

Kenny et al (1996) Evaluation of the pharmacological selectivity profile of α_1 adrenoceptor antagonists at prostatic α_1 adrenoceptors: binding functional and *in vivo* studies. *Br.J.Pharmacol.* **118** 871. PMID: 8799556.

Ma et al (2006) Chiral selective effects of doxazosin enantiomers on blood pressure and urinary bladder pressure in anesthetized rats. *Acta Pharmacol.Sinica* **27** 1423.

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