

Certificate of Analysis

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Product Name: Betaxolol hydrochloride

Catalog No.: 0906

Batch No.: 2

CAS Number: 63659-19-8

EC Number: 264-384-3

IUPAC Name: 1-[4-[2-(Cyclopropylmethoxy)ethyl]phenoxy]-3-isopropylamino-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₉NO₃.HCl

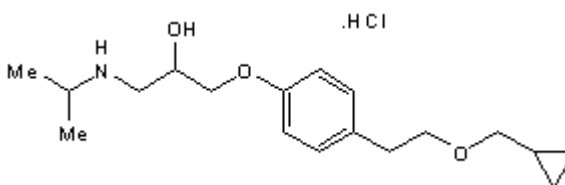
Batch Molecular Weight: 343.89

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Ethyl acetate:Petroleum ether [1:10])

Melting Point: Between 139 - 140°C

HPLC: Shows >99.8% purity

¹H NMR: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	62.87	8.79	4.07
Found	62.87	9.07	4.15

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

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Description:

Selective β_1 -adrenoceptor antagonist.

Physical and Chemical Properties:

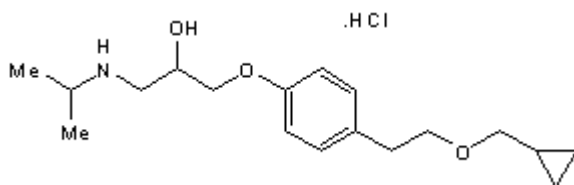
Batch Molecular Formula: $C_{18}H_{29}NO_3 \cdot HCl$

Batch Molecular Weight: 343.89

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 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** 1229.

Beresford and Heel (1986) Betaxolol. A review of its pharmacodynamic and pharmacokinetic properties and therapeutic efficacy in hypertension. *Drugs* **31** 6. PMID: 2866947.

Satoh et al (1993) The affinity of betaxolol, a β_1 -adrenoceptor-selective blocking agent, for β -adrenoceptors in the bovine trachea and heart *Br.J.Pharmacol.* **108** 484. PMID: 8383566.

Setoguchi et al (1995) Inhibitory action of betaxolol, a β_1 -selective adrenoceptor antagonist, on voltage-dependent calcium channels in guinea pig artery and vein. *Br.J.Pharmacol.* **115** 198. PMID: 7647977.

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