

Certificate of Analysis

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Product Name: Propranolol hydrochloride

Catalog No.: 0624

Batch No.: 4

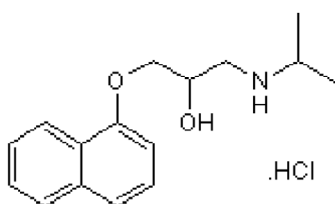
CAS Number: 318-98-9

EC Number: 222-501-5

IUPAC Name: (RS)-1-[(1-Methylethyl)amino]-3-(1-naphthalenyloxy)-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₁NO₂.HCl
Batch Molecular Weight: 295.81
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.74 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Between 166 - 167°C
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	64.97	7.5	4.74
Found	64.94	7.58	4.64

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

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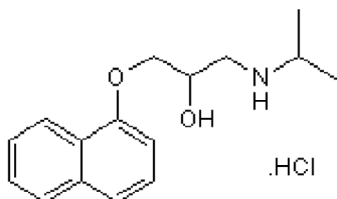
Description:

Propranolol hydrochloride is an β -adrenergic antagonist. R-enantiomer, S-enantiomer and Glycol Metabolite also available.

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Batch Molecular Structure:**Storage:** Store at RT**Solubility & Usage Info:**

water 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Litwin *et al* (1999) Effects of propra. treatment on left ventricular function and intracellular calcium regulation in rats with postinfarction heart failure. *Br.J.Pharmacol.* **127** 1671. PMID: 10455325.

Xie *et al* (1998) The inhibitory effect of propra. on ATP-sensitive potassium channels in neonatal rat heart. *Br.J.Pharmacol.* **123** 599. PMID: 9517376.

Merck Index **12** 8025.

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