

Certificate of Analysis

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Product Name: (R)-(+)-Propranolol hydrochloride

Catalog No.: 0835

Batch No.: 1

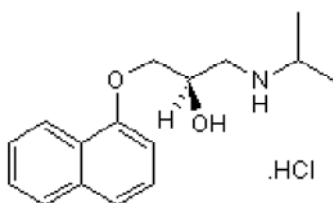
CAS Number: 13071-11-9

EC Number: 225-749-2

IUPAC Name: (R)-(+)-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 = 0.8 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 194°C
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = +23.6 (Concentration = 1, Solvent = Ethanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.97	7.73	4.64
Found	65.38	7.73	4.64

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

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Description:

Less active enantiomer of the β -adrenoceptor antagonist propranolol. Racemate, S-enantiomer and Glycol Metabolite also available.

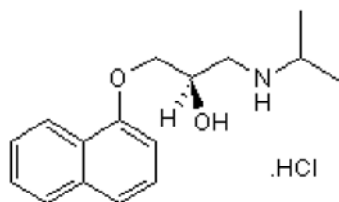
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Storage: Store at RT

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. 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:

Barrett et al (1968) The biological properties of the optical isomers of propranolol and their effects on cardiac arrhythmias. Br.J.Pharmacol. **34** 43. PMID: 19108278.

Bond et al (1967) Metabolism of propranolol (Inderal) a potent, specific β -adrenergic receptor blocking agent. Nature **213** 721. PMID: 6031788.

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