

Product Name: (S)-(-)-Propranolol hydrochloride

Catalog No.: 0834

Batch No.: 4

CAS Number: 4199-10-4

EC Number: 224-096-0

IUPAC Name: (S)-(-)-1-[(1-methylethyl)amino]-3-(1-naphthalenyloxy)-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₁NO₂.HCl.

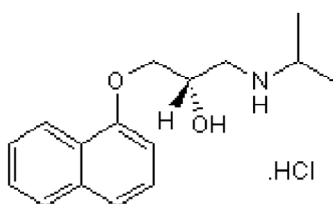
Batch Molecular Weight: 295.81

Physical Appearance: White solid

Solubility: water to 20 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

Chiral HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -26 (Concentration = 1, Solvent = Ethanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.97	7.5	4.74
Found	65.13	7.38	4.73

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

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Description:

(S)-(-)-Propranolol hydrochloride is a more active enantiomer of the β -adrenoceptor antagonist propranolol. Racemate, R-enantiomer and Glycol Metabolite also available.

Physical and Chemical Properties:

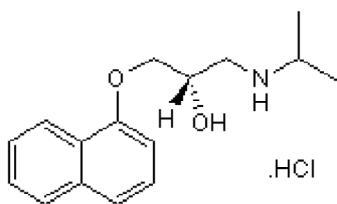
Batch Molecular Formula: C₁₆H₂₁NO₂.HCl.

Batch Molecular Weight: 295.81

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 20 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:

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

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

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