

Product Name: (S)-(-)-Pindolol

Catalog No.: 1060

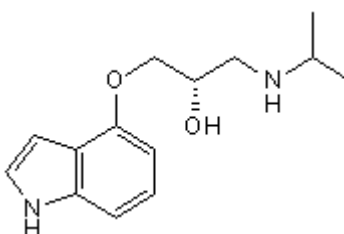
Batch No.: 3

CAS Number: 26328-11-0

IUPAC Name: (S)-1-(1*H*-indol-4-yloxy)-3-[(1-methylethyl)amino]-2-propanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₀N₂O₂
Batch Molecular Weight: 248.32
Physical Appearance: White solid
Solubility: 1eq. HCl to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.37 (Dichloromethane:Methanol:Acetic acid [9:1:0.1])
HPLC: Shows >99.9% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -4.8 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.71	8.12	11.28
Found	67.32	7.93	11.08

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

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Description:

5-HT_{1A/1B} receptor antagonist, with roughly equal affinity for each subtype. A partial agonist at mouse and human β₃-adrenoceptors. More active enantiomer of pindolol (Cat. No. 0994).

Physical and Chemical Properties:

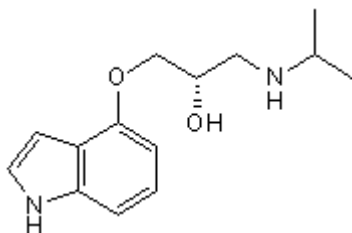
Batch Molecular Formula: C₁₄H₂₀N₂O₂

Batch Molecular Weight: 248.32

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Walter et al (1984) Stimulant and blocking effects of optical isomers of pindolol on the sinoatrial node and trachea of guinea pig. Role of β-adrenoceptor subtypes in the dissociation between blockade and stimulation. *Naunyn Schmiedebergs Arch.Pharmacol.* **327** 159. PMID: 6092972.

Kalkman (1989) β-Adrenoceptor blockade in rats enhances the ambulation induced by 5-HT_{1A} receptor agonists. *Eur.J.Pharmacol.* **173** 121. PMID: 2576226.

Corradetti et al (1998) Antagonist properties of (-)-pindolol and WAY 100635 at somatodendritic and postsynaptic 5-HT_{1A} receptors in the rat brain. *Br.J.Pharmacol.* **123** 449. PMID: 9504386.

Storage: Desiccate at +4°C

Solubility & Usage Info:

1eq. HCl 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.

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