

Certificate of Analysis

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Product Name: Pindolol

Catalog No.: 0994

Batch No.: 5

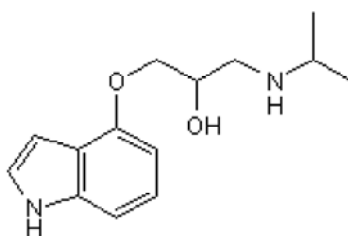
CAS Number: 13523-86-9

EC Number: 236-867-9

IUPAC Name: 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: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.72	8.12	11.28
Found	68	7.87	11.35

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

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

Description:

5-HT_{1A/1B} receptor antagonist, with roughly equal affinity for each subtype. A partial agonist at mouse and human β_3 -adrenoceptors. S-enantiomer also available.

Physical and Chemical Properties:

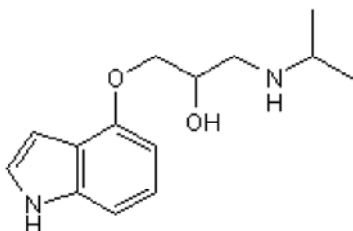
Batch Molecular Formula: C₁₄H₂₀N₂O₂

Batch Molecular Weight: 248.32

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Clifford et al (1998) Electrophysiological and neurochemical evidence that pindolol has agonist properties at the 5-HT_{1A} autoreceptor *in vivo*. Br.J.Pharmacol. **124** 206. PMID: 9630361.

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.

Hoyer et al (1994) VII. International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (serotonin). Pharmacol.Rev. **46** 157. PMID: 7938165.

Blin et al (1993) Structural and conformational features determining selective signal transduction in the β_3 -adrenergic receptor. Mol.Pharmacol. **44** 1094. PMID: 7903415.

Merck Index **12** 7597.

Storage: Store at RT

Solubility & Usage Info:

DMSO 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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