

Certificate of Analysis

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Product Name: AH 11110 hydrochloride

Catalog No.: 0998

Batch No.: 1

CAS Number: 179388-65-9

IUPAC Name: 4-Imino-1-(2-phenylphenoxy)-4-piperidinebutan-2-ol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆N₂O₂.HCl

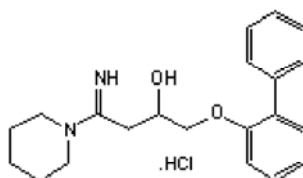
Batch Molecular Weight: 374.91

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 194 - 198°C

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen			
Theoretical	67.28	7.26	7.47	0.00
Found	67.25	7.27	7.45	0.00

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

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CAS Number: 179388-65-9

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Description:

A subtype-selective ligand for the α_{1B} -adrenoceptor. The pK_i values for binding to rat fibroblast cell membranes expressing α_{1B} (hamster), α_{1A} (bovine) and α_{1D} (rat) are 7.1, 5.59, and 5.68 respectively. Appears to be non-selective between α_1 subtypes and α_2 receptors in smooth muscle preparations.

Physical and Chemical Properties:

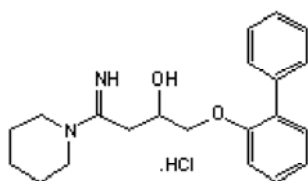
Batch Molecular Formula: $C_{21}H_{26}N_2O_2 \cdot HCl$

Batch Molecular Weight: 374.91

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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:

Eltze et al (2001) Failure of AH11110A to functionally discriminate between α_1 -adrenoceptor subtypes A, B and D or between α_1 - and α_2 -adrenoceptors. *Eur.J.Pharmacol.* **415** 265. PMID: 11275009.

Saussy et al (1996) Structure-activity relationships of a series of busp. analogs at α_1 -adrenoceptors: further evidence that rat aorta α_1 -adrenoceptors are of the α_1D subtype. *J.Pharmacol.Exp.Ther.* **278** 136. PMID: 8764344.

King et al (1994) AH 11110A is selective for the α_{1B} -subtype of α_1 -adrenoceptors. *Soc.Neurosci.Abstr.* **20** 526.

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