## **Certificate of Analysis**

## Print Date: Nov 4th 2016 www.tocris.com

## Product Name: Alprenolol hydrochloride

Catalog No.: 2806

EC Number: 237-244-4

Batch No.: 3

CAS Number:

13707-88-5

**IUPAC Name:** 

OCR

a **biotechne** brand

1-[(1-Methylethyl)amino]-3-[2-(2-propenyl)phenoxy]-2-propanol hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility: Storage: **Batch Molecular Structure:**  C15H23NO2.HCI 285.81 White solid water to 100 mM Desiccate at RT

Found

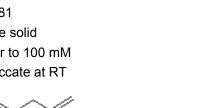
ОH .HCI

## 2. ANALYTICAL DATA

R<sub>f</sub> = 0.06 (Dichloromethane:Methanol [95:5]) TLC: HPLC: Shows 100% purity Consistent with structure <sup>1</sup>H NMR: Consistent with structure Mass Spectrum: **Microanalysis:** Carbon Hydrogen Nitrogen Theoretical 63.04 8.46

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

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4.9

4.94

63.07

8.52

# TOCRIS a biotechne brand

## Print Date: Nov 4th 2016

Batch No.: 3

## www.tocris.com

## Product Name: Alprenolol hydrochloride

CAS Number: 13707-88-5

IUPAC Name: 1-[(1-Methylethyl)amino]-3-[2-(2-propenyl)phenoxy]-2-propanol hydrochloride

### **Description:**

 $\beta$ -adrenoceptor ( $\beta_2 > \beta_1 > \beta_3$ ) and 5-HT<sub>1A</sub> receptor antagonist.

### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>15</sub>H<sub>23</sub>NO<sub>2</sub>.HCl Batch Molecular Weight: 285.81 Physical Appearance: White solid

Minimum Purity: >99%

**Batch Molecular Structure:** 

OH .HCI

### Storage: Desiccate 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).

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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:**

**Baker** (2005) The selectivity of  $\beta$ -adrenoceptor antagonists at the human  $\beta$ 1,  $\beta$ 2 and  $\beta$ 3 adrenoceptors. Br.J.Pharmacol. **144** 317. PMID: 15655528.

**Bjorvatin** *et al* (1992) The 5-HT<sub>1A</sub> antagonist (-)-alprenolol fails to modify sleep or zimeldine-induced sleep-waking effects in rats. Pharmacol.Biochem.Behav. **42** 49. PMID: 1388278.

Blue et al (1990) Antagonist characterization of atypical beta adrenoceptors in guinea pig ileum: blockade by alprenolol and dihydroalprenolol. J.Pharmacol.Exp.Ther. 252 1034. PMID: 1969469.

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