# **Certificate of Analysis**

## Product Name: Yohimbine hydrochloride

CAS Number:65-19-0IUPAC Name:17α-Hydroxyyohimban-16α-carboxylic acid methyl ester hydrochloride

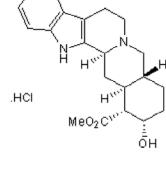
1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure:

TOCRIS

a biotechne

C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>.HCl 390.91 White solid DMSO to 20 mM with gentle warming Store at RT



2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis:

Shows 98.2% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	64.52	6.96	7.16
Found	64.38	6.96	7.19

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### www.tocris.com

Batch No.: 7

Catalog No.: 1127 EC Number: 200-600-4

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## **Product Information**

### www.tocris.com

Print Date: Dec 12th 2017

Batch No.: 7

#### Product Name: Yohimbine hydrochloride

CAS Number: 65-19-0 IUPAC Name: 17α-Hydroxyyohimban-16α-carbox

ne:  $17\alpha$ -Hydroxyyohimban- $16\alpha$ -carboxylic acid methyl ester hydrochloride

#### **Description:**

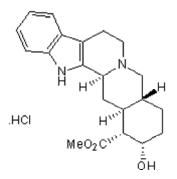
 $\alpha_2$ -adrenoceptor antagonist (pK<sub>i</sub> values are 8.52, 8.00 and 9.17 for human  $\alpha_{2A},\,\alpha_{2B}$  and  $\alpha_{2C}$  receptors respectively). Diastereomer also available.

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

Batch Molecular Formula: C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>.HCl Batch Molecular Weight: 390.91 Physical Appearance: White solid

Minimum Purity: >98%

**Batch Molecular Structure:** 



Storage: Store at RT

#### Solubility & Usage Info:

DMSO to 20 mM with gentle warming

#### 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).

Catalog No.: 1127

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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:**

**Lalchandani** *et al* (2002) Yohimbine dimers exhibiting selectivity for the human  $\alpha_{2c}$ -adrenoceptor subtype. J.Pharmacol.Exp.Ther. **303** 979. PMID: 12438517.

**Redfern and Williams** (1995) A re-evaluation of the role of  $\alpha_2$ -adrenoceptors in the anxiogenic effects of yohimbine, using the selective antagonist delequamine in the rat. Br.J.Pharmacol. **116** 2081. PMID: 8640349.

**Goldberg and Robertson** (1987) Yohimbine: a pharmacological probe for study of the  $\alpha_2$ -adrenoceptor. Pharmacol.Rev. **35** 143.

**Doxey** *et al* (1984) Comparison of the  $\alpha$ -adrenoceptor antagonist profiles of idazoxan (RX 781094), yohimbine, rauwolscine and corynanthine. Naunyn Schmiedebergs Arch.Pharmacol. **325** 136. PMID: 6144048.

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