

## Certificate of Analysis

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**Product Name:** Rauwolscine hydrochloride

**Catalog No.:** 0891

**Batch No.:** 12

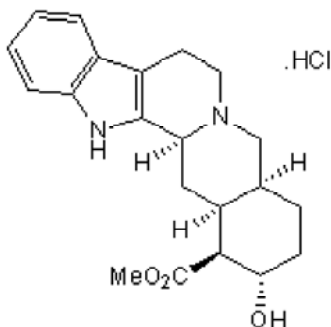
CAS Number: 6211-32-1

EC Number: 228-279-6

IUPAC Name: 17 $\alpha$ -Hydroxy-20 $\alpha$ -yohimban-16 $\beta$ -carboxylic acid, methyl ester hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>21</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub> .HCl
<b>Batch Molecular Weight:</b>	390.91
<b>Physical Appearance:</b>	Off-white solid
<b>Solubility:</b>	water to 5 mM with gentle warming DMSO to 25 mM with gentle warming
<b>Storage:</b>	Store at RT
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98.9% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen		
Theoretical	64.52	6.96	7.17
Found	64.54	7.01	7.22

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

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**Description:**

Rauwolscine hydrochloride is a standard  $\alpha_2$ -adrenergic antagonist ( $K_i$  values are 3.5, 4.6, and 0.6 nM at cloned human  $\alpha_{2A}$ ,  $\alpha_{2B}$ , and  $\alpha_{2C}$ -adrenoceptors respectively). Partial agonist at 5-HT<sub>1A</sub> receptors. Diastereomer also available.

**Physical and Chemical Properties:**

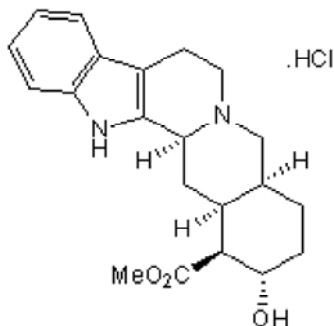
Batch Molecular Formula: C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>.HCl

Batch Molecular Weight: 390.91

Physical Appearance: Off-white solid

**Minimum Purity:**  $\geq 95\%$

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 5 mM with gentle warming  
DMSO to 25 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).

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:**

**Uhlen *et al*** (1998) [3H]RS79948-197 binding to human, rat, guinea pig and pig  $\alpha_{2A}$ -,  $\alpha_{2B}$ -, and  $\alpha_{2C}$ -adrenoceptors. Comparison with MK912, RX821002, rauwolscine and yohimbine. *Eur.J.Pharmacol.* **343** 93. PMID: 9551719.

**Hieble *et al*** (1995)  $\beta$ - and  $\gamma$ -Adrenoceptors: from the gene to the clinic. 1. Molecular biology and adrenoceptor subclassification. *J.Med.Chem.* **38** 3415. PMID: 7658428.

**Arthur *et al*** (1993) Partial agonist properties of rauwolscine and yohimbine for the inhibition of adenylyl cyclase by recombinant human 5-HT<sub>1A</sub> receptors. *Biochem.Pharmacol.* **45** 2337. PMID: 8517875.

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