

Certificate of Analysis

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Product Name: Yohimbine hydrochloride

Catalog No.: 1127

Batch No.: 8

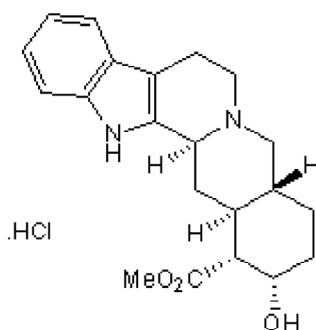
CAS Number: 65-19-0

EC Number: 200-600-4

IUPAC Name: 17 α -Hydroxyyohimban-16 α -carboxylic acid methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆N₂O₃.HCl.
Batch Molecular Weight: 390.91
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.52	6.96	7.17
Found	64.53	6.97	7.14

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

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CAS Number: 65-19-0

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IUPAC Name: 17 α -Hydroxyyohimban-16 α -carboxylic acid methyl ester hydrochloride

Description:

Yohimbine hydrochloride is a α_2 -adrenoceptor antagonist (pK_i values are 8.52, 8.00 and 9.17 for human α_{2A} , α_{2B} and α_{2C} receptors respectively). Diastereomer also available.

Physical and Chemical Properties:

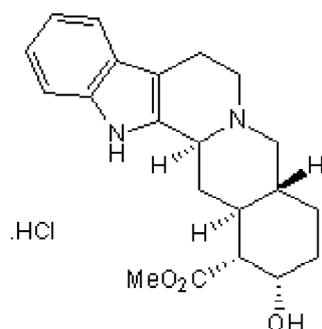
Batch Molecular Formula: C₂₁H₂₆N₂O₃.HCl.

Batch Molecular Weight: 390.91

Physical Appearance: White solid

Minimum Purity: \geq 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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 α_{2C} -adrenoceptor subtype. *J.Pharmacol.Exp.Ther.* **303** 979. PMID: 12438517.

Redfern and Williams (1995) A re-evaluation of the role of α_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 α_2 -adrenoceptor. *Pharmacol.Rev.* **35** 143.

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