

Certificate of Analysis

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Product Name: Rauwolscine hydrochloride

Catalog No.: 0891

Batch No.: 13

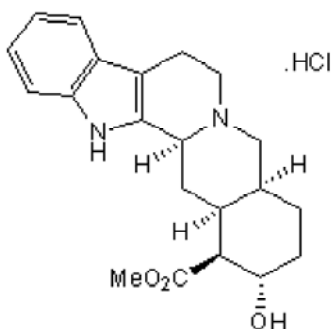
CAS Number: 6211-32-1

EC Number: 228-279-6

IUPAC Name: 17 α -Hydroxy-20 α -yohimban-16 β -carboxylic acid,methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

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



2. ANALYTICAL DATA

HPLC:	Shows 98.3% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	64.52	6.96	7.17
	Found	64.38	7	7.11

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

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Description:

Rauwolscine hydrochloride is a standard α_2 -adrenergic antagonist (K_i values are 3.5, 4.6, and 0.6 nM at cloned human α_{2A} , α_{2B} , and α_{2C} -adrenoceptors respectively). Partial agonist at 5-HT_{1A} receptors. Diastereomer also available.

Physical and Chemical Properties:

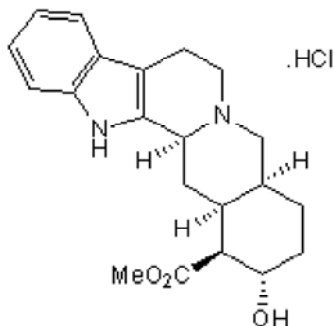
Batch Molecular Formula: C₂₁H₂₆N₂O₃.HCl

Batch Molecular Weight: 390.91

Physical Appearance: Off-white solid

Minimum Purity: \geq 95%

Batch Molecular Structure:



References:

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

Hieble *et al* (1995) β - and γ -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_{1A} receptors. *Biochem.Pharmacol.* **45** 2337. PMID: 8517875.

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.

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