

Certificate of Analysis

Product Name: Corynanthine hydrochloride

Catalog No.: 1143

Batch No.: 3

CAS Number: 66634-44-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆N₂O₃·HCl·2H₂O

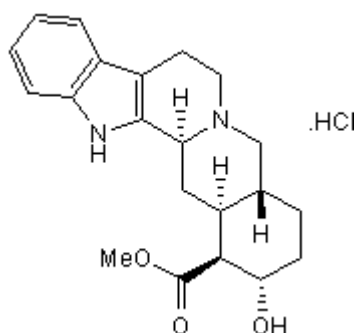
Batch Molecular Weight: 426.94

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.62 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 248 - 250°C(dec)

HPLC: Shows >99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.07	7.32	6.56
Found	58.58	6.7	6.28

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

Product Name: Corynanthine hydrochloride **Catalog No.:** 1143 **Batch No.:** 3
CAS Number: 66634-44-4
IUPAC Name: (16 β ,17 α)-17-Hydroxy-yohimban-16-carboxylic acid methyl ester hydrochloride

Description:

α_1 -adrenoceptor selective antagonist.

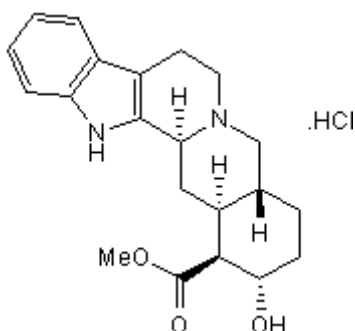
Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₆N₂O₃.HCl.2H₂O

Batch Molecular Weight: 426.94

Physical Appearance: Pale yellow solid

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO 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).

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:

Sheppard *et al* (1981) Pre- and postsynaptic alpha adrenoceptor selectivity studies with yohimbine and its two diastereoisomers rauwolscine and corynanthine in the anesthetized dog. *J.Pharmacol.Exp.Ther.* **219** 540. PMID: 6270312.

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.

Hertting and Jackisch (1985) Endogenous noradrenaline as modulator of hippocampal serotonin (5-HT)-release. Dual effects of yohimbine, rauwolscine and corynanthine as alpha-adrenoceptor antagonists and 5-HT receptor agonists. *Naunyn Schmiedebergs Arch.Pharmacol.* **329** 216. PMID: 2991775.

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel: +1 612 379 2956