

Product Name: Conessine

Catalog No.: 2409

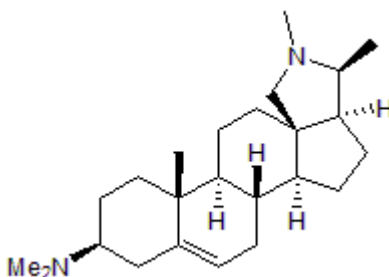
Batch No.: 1

CAS Number: 546-06-5

IUPAC Name: *N,N*-Dimethyl-con-5-enin-3-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₄₀N₂
Batch Molecular Weight: 356.59
Physical Appearance: Off-white solid
Solubility: ethanol to 50 mM
DMSO to 50 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Dichloromethane:Methanol [10:1])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +19 (Concentration = 1, Solvent = ethanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	80.84	11.31	7.85
Found	80.81	11.45	7.9

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

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Description:

Potent and selective histamine H₃ receptor antagonist (pK_i values are 7.61 and 8.27 at rat and human H₃ receptors respectively). A steroidal alkaloid that displays in vitro antiplasmodial activity (IC₅₀ = 1.04 μM). Also has high affinity for α_{2C} adrenoceptors (pK_i = 7.98).

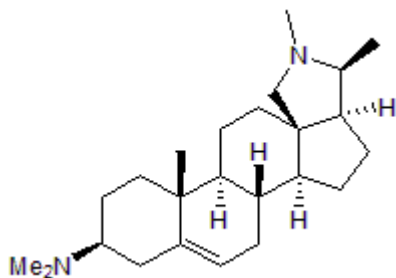
Physical and Chemical Properties:

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References:

Zirih *et al* (2005) Isolation, characterization and antiplasmodial activity of steroidal alkaloids from *Funtumia elastica* (Preuss) Stapf. *Bioorg.Med.Chem.Lett.* **15** 2637. PMID: 15863333.

Witte *et al* (2005) Discovery of a novel natural product of unique chemical structure as a potent and selective histamine H₃ receptor (H₃R) antagonist. *Soc.Neurosci.Abstr.* **491** 19.

Zhao *et al* (2008) The alkaloid conessine and analogues as potent histamine H₃ receptor antagonists. *J.Med.Chem.* **51** 5423. PMID: 18683917.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 50 mM

DMSO to 50 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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