

**Product Name:** Reserpine

**Catalog No.:** 2742

**Batch No.:** 8

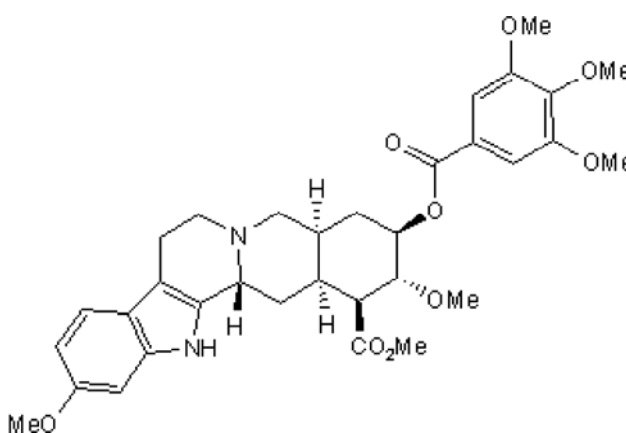
CAS Number: 50-55-5

EC Number: 200-047-9

IUPAC Name: (3 $\beta$ ,16 $\beta$ ,17 $\alpha$ ,18 $\beta$ ,20 $\alpha$ )-11,17-Dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]yohimban-16-carboxylic acid methyl ester

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>33</sub>H<sub>40</sub>N<sub>2</sub>O<sub>9</sub>  
**Batch Molecular Weight:** 608.68  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -120.5 (Concentration = 1, Solvent = Chloroform)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.12	6.62	4.6
Found	64.79	6.64	4.6

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**Description:**

Binds the vesicular monoamine transporter (VMAT2) and inhibits transport of biogenic amines into adrenal chromaffin granules and synaptic vesicles. Causes depletion of biogenic amine stores. Antihypertensive and antipsychotic.

**Physical and Chemical Properties:**

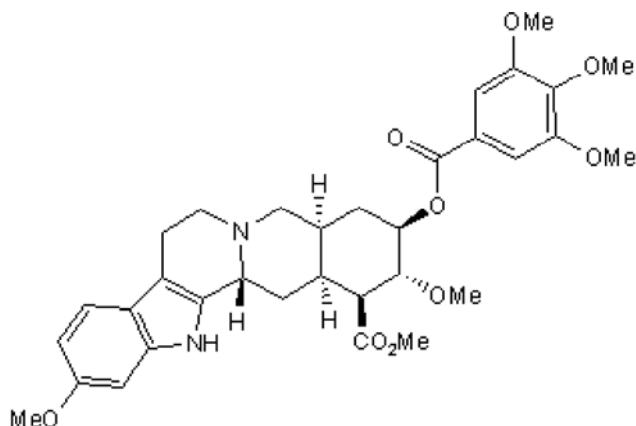
Batch Molecular Formula: C<sub>33</sub>H<sub>40</sub>N<sub>2</sub>O<sub>9</sub>

Batch Molecular Weight: 608.68

Physical Appearance: Beige solid

**Minimum Purity:**  $\geq$ 99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 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:**

**Metzger *et al*** (2002) Inhibitory effect of rese. on DA transporter function. *Eur.J.Pharmacol.* **456** 39. PMID: 12450567.

**Heslop and Curzon** (1999) Effect of rese. on behavioural responses to agonists at 5-HT<sub>1A</sub>, 5-HT<sub>1B</sub>, 5-HT<sub>2A</sub>, and 5-HT<sub>2C</sub> receptor subtypes. *Neuropharmacology* **38** 883. PMID: 10465692.

**Schuldiner *et al*** (1993) Reserpine binding to a vesicular amine transporter expressed in chinese hamster ovary fibroblasts. *J.Biol.Chem.* **268** 29. PMID: 8416935.

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