

Reserpine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Reserpine

Catalog No.: CFN98112

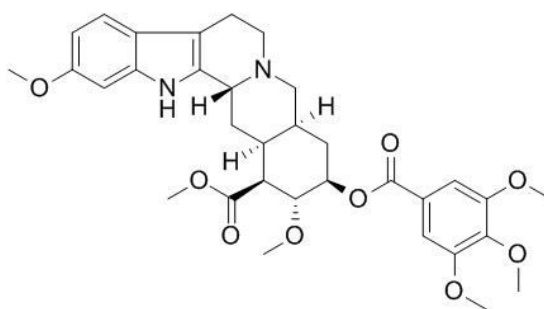
Cas No.: 50-55-5

Purity: >=98%

M.F: C₃₃H₄₀N₂O₉

M.W: 608.69

Physical Description: White powder



Synonyms: Methyl reserpate 3,4,5-trimethoxybenzoic acid ester; Methyl (1R,15S,17R,18R,19S,20S)-6,18-dimethoxy-17-(3,4,5-trimethoxybenzoyl)oxy-1,3,11,12,14,15,16,17,18,19,20,21-dodecahydroyohimban-19-carboxylate; Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3 α ,16 α ,17-,18 α ,20-)-.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Rauvolfia vomitoria* Afzel.

[Biological Activity or Inhibitors]

Reserpine is a antihypertensive plant alkaloid , also it is a known inhibitor of multidrug resistance (mdr) efflux pumps.^[1]

Reserpine pretreatment can prevent increases in extracellular striatal dopamine following L-DOPA administration in rats with nigrostriatal denervation.^[2]

Reserpine ameliorates Abeta toxicity in the Alzheimer's disease model in *Caenorhabditis elegans*, it can significantly delay paralysis and increase the longevity in this model.^[3]

Reserpine causes biphasic nociceptive sensitivity alteration in conjunction with brain biogenic amine tones in rats.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25°C;

The wave length of determination: 268 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Gibbons S, Udo E E. *Phytother. Res.*, 2000 Mar; 14(2):139-40.

[2] Kannari K, Tanaka H, Maeda T, et al. *J. Neurochem.*, 2000, 74(1):263-9.

[3] Arya U, Dwivedi H, Subramaniam J R. *Exp. Gerontol.*, 2009 Jun-Jul; 44(6-7):462-6.

[4] Oe T, Tsukamoto M, Nagakura Y. *Neuroscience*, 2010, 169(4):1860-71.

[5] Baratto L C, Campos F R, Pontarolo R, *et al. Química Nova*, 2012, 35(2):408-10.

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