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3rd Edition (Revised in January, 2014)

[Product Information]

Name: Gelsemine

Catalog No.: CFN99001

Cas No.: 509-15-9

Purity: > 98%

M.F: C₂₀H₂₂N₂O₂

M.W: 322.4

Physical Description: Powder

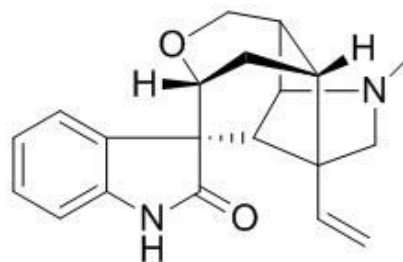
Synonyms:

3-ethenyl-1-methyl-2,3,3a,7,8,8a-hexahydro-1H,5H-spiro[3,8,5-(ethane[1,1,2]triylo)oxepino[4,5-b]pyrrole-4,3'-indol]-2'(1'H)-one;

(3S,3aS,4S,5R,8S,8aS,9R)-3-ethenyl-1-methyl-2,3,3a,7,8,8a-hexahydro-1H,5H-spiro[3,8,5-(ethane[1,1,2]triylo)oxepino[4,5-b]pyrrole-4,3'-indol]-2'(1'H)-one;

(3S,3aS,4S,5R,8S,8aS)-3-ethenyl-1-methyl-2,3,3a,7,8,8a-hexahydro-1H,5H-spiro[3,8,5-(ethane[1,1,2]triylo)oxepino[4,5-b]pyrrole-4,3'-indol]-2'(1'H)-one;

(3S,3aR,4S)-3-ethenyl-1-methyl-2,3,3a,7,8,8a-hexahydro-1H,5H-spiro[3,8,5-(ethane[1,1,2]triylo)oxepino[4,5-b]pyrrole-4,3'-indol]-2'(1'H)-one



[Intended Use]

1. Reference standards;

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

[Source]

The root of *Gelsemium elegans* (Gardn. et Champ.) Benth.

[Applications]

Gelsemine has convulsant effects with a similar mechanism of action to strychnine. Due to its complex structure, gelsemine has been the target for a number of total synthesis projects.

Undocumented accounts of Strychnine-like activity as a CNS stimulant.

[Solvent]

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

[HPLC Method]

Mobile phase: Methanol : H₂O : n-Butylamine=78:22:0.1;

Flow rate: 1.0 ml/min;

The wave length of determination: 256 nm.

[Storage]

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

[References]

1. *J. Nat. Prod.*, 1985, 48(6): 969-971
2. *Phytochemistry*, 1991, 30(2): 679-683

3. *Angewandte Chemie International Edition*, 2012, 51(20), 4909-4912.