Natural Products

ChemFaces

Yohimbine Datasheet

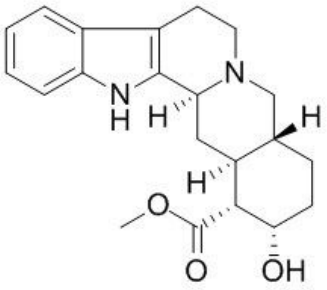
5th Edition (Revised in January, 2017)

[Product Information]

Name: Yohimbine

Catalog No.: CFN90147

Cas No.: 146-48-5



Purity: >=98%

M.F: $C_{21}H_{26}N_2O_3$

M.W: 354.44

Physical Description: Cryst

Synonyms: Aphrodine;Corynine;Yocon;17Alpha-Hydroxy-yohimban-16alpha-carboxylic acid methyl ester.

[Intended Use]

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

[Source]

The peel of *Corynante yohimbe*.

[Biological Activity or Inhibitors]

Yohimbine is an alpha-2 adrenoreceptor antagonist that provokes stress- and anxiety-like responses in both humans and laboratory animals, the extrahypothalamic corticotrotropin -releasing factor 1(CRF1) receptors are involved in the effect of yohimbine on operant alcohol self-administration and on relapse to alcohol seeking and support the notion that CRF1 receptor antagonists should be considered in alcohol addiction treatment.[1]

Yohimbine and phentolamine inhibit ATP-sensitive K^+ channels in mouse pancreatic beta-cells.[2]

Yohimbine has potentiation of alpha-adrenoceptor-mediated vasoconstriction in response to clonidine in the rabbit ear vein.[3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: (Methanol-water-trifluoroacetic acid=30:70:0.1)-(Methanol-water -trifluoroacetic acid=55:45:0.1),gradient elution;

Flow rate:1.0 ml/min;

Column temperature: 30℃;

The wave length of determination:230 nm.

[Storage]

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

[References]

[1] Marinelli P W, Funk D, Juzytsch W, *et al. Psychopharmacology (Berl), 2007 Dec; 195(3):345-55.*

[2] Plant T D, Henquin J C. *Br. J. Pharmacol.,1990 Sep;101(1):115-20.*

[3] Zhao D, Ren L M, Lu H G, *et al. Eur. J. Pharmacol.,2008 Jul 28;589(1-3):201-5.*

[4] Liu Y, Sun L, Feng L, e*t al. Chinese Journal of Biochemical Pharmaceutics,2008, 29(2): 107-9.*

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