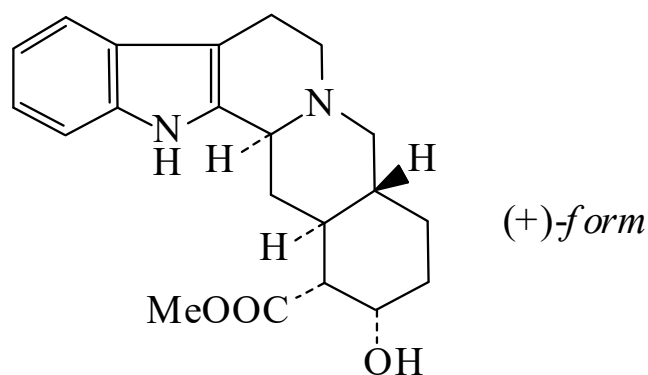




>>Entry Name: Yohimbine

Synonym(s): Methyl (16 α ,17 α)-17-hydroxy-yohimban-16-carboxylate, 9Cl. Aphrodine. **Corymbin**†. Corynine. Yohimex. Hydroergotocin. Quebrachine. Yohimvetol



Molecular Formula: C₂₁H₂₆N₂O₃

Molecular Weight: 354.448

Accurate Mass: 354.194343

Percentage Composition: C 71.16%; H 7.39%; N 7.90%; O 13.54%

Use/Importance: Local anaesthetic. Selective α_2 -adrenoceptor antagonist. Yohimbine and its stereoisomers are used as tools for study of different adrenoceptor sites.

Antidepressant agent used clinically. Shows antihypotensive activity, causes vasopressin release and shows antidiuretic activity. Alleged aphrodisiac. Anxiogenic activity in rodents

Calculated Log P Data: Log P 2.24 (calc)

>>Variant: (+)-form

CAS Registry Number: 146-48-5

Molecular Formula: C₂₁H₂₆N₂O₃

Molecular Weight: 354.448

Accurate Mass: 354.194343

Percentage Composition: C 71.16%; H 7.39%; N 7.90%; O 13.54%

Biological Source: Alkaloid from *Alchornea*, *Alstonia*, *Amsonia*, *Aspidosperma*, *Catharanthus*, *Corynanthe*, *Diplorhynchus*, *Rauwolfia*, *Vinca*, *Pausinystalia*, *Lochnera*, *Pouteria*, *Hunteria* and *Pseudocinchona* spp. (Apocynaceae, Rubiaceae)

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 241° (235-236°)

Optical Rotation: $[\alpha]_D^{20} +108$ (Py)

Calculated Log P Data: Log P 2.24 (calc)

Other Data: Pharmacol. active isomer

Aldrich: 23048-0

>>Derivative: Hydrochloride

Synonym(s): Yohimbine hydrochloride. Gynimbine. Menolysin. Parkimbine. Tosanpin. Yobinol. Yocon. Yohydrol

CAS Registry Number: 65-19-0

Physical Description: Plates

Melting Point: Mp 302°

Optical Rotation: $[\alpha]_D^{22} +103$ (H₂O)

Other Data: Component of Potensan, Vikonon

Hazard & Toxicity: LD₅₀ (rat, ipr) 55 mg/kg

Aldrich: Y20-8

Sigma: Y0126

>>Derivative: O-Ac

Synonym(s): O-Acetylyohimbine

CAS Registry Number: 15471-41-7

Molecular Formula: C₂₃H₂₈N₂O₄

Molecular Weight: 396.485

Accurate Mass: 396.204908

Percentage Composition: C 69.68%; H 7.12%; N 7.07%; O 16.14%

Biological Source: Alkaloid from *Aspidosperma excelsum* (Apocynaceae)

Melting Point: Mp 150°