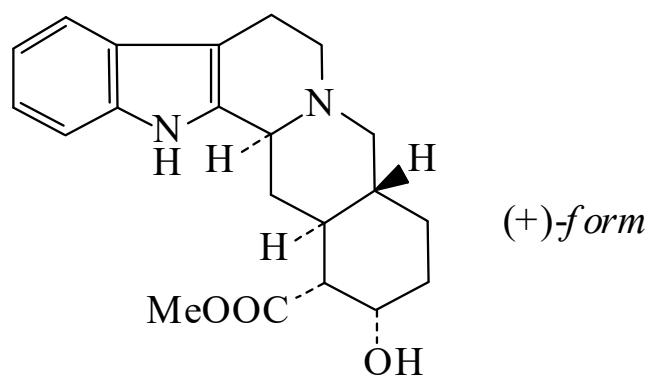




>>Entry Name: Yohimbine

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



**Molecular Formula:** C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>

**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  $\alpha_2$ -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:** C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>

**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:**  $[\alpha]_D^{22} +103$  (H<sub>2</sub>O)

**Other Data:** Component of Potensan, Vikonon

**Hazard & Toxicity:** LD<sub>50</sub> (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:** C<sub>23</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub>

**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°