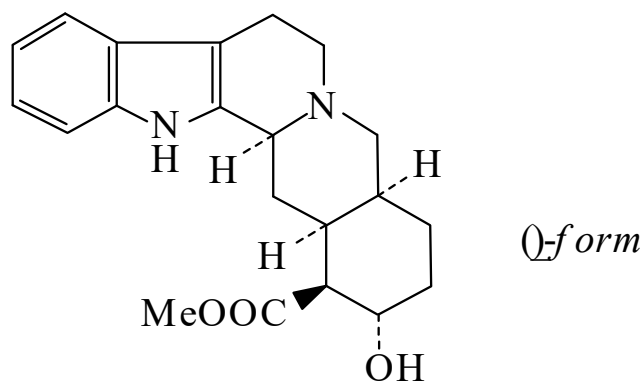




>>Entry Name:  $\alpha$ -Yohimbine

**Synonym(s):** Methyl (16 $\beta$ ,17 $\alpha$ ,20 $\alpha$ )-17-hydroxy-yohimban-16-carboxylate, 9Cl. Isoyohimbine. Rauwolscine. Mesoyohimbine. **Corynantheidine** $\ddagger$ . Chalcupine A



**CAS Registry Number:** 131-03-3

**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 *Alstonia*, *Aspidosperma*, *Corynanthe*, *Pseudocinchona*, *Rauwolfia* and *Vinca* spp. Also from *Pausinystalia croceras* (Apocynaceae, Rubiaceae)

**Use/Importance:** Strong selective  $\alpha_2$ -adrenoceptor antagonist, also reported to possess aphrodisiac props.

**Melting Point:** Mp 243° (235-236°)

**Optical Rotation:**  $[\alpha]_D^{19}$  -27 (c, 1.0 in EtOH)

**Calculated Log P Data:** Log P 2.24 (calc)

**Other Data:** Serpine was a mixt. of  $\alpha$ -Yohimbine with Yohimbine [BCK88-A](#)

**Hazard & Toxicity:** LD<sub>50</sub> (rat, ipr) 50 mg/kg

>>Derivative: Hydrochloride

**CAS Registry Number:** 6211-32-1

**Melting Point:** Mp 288°

**Optical Rotation:**  $[\alpha]_D^{19}$  +58 (c, 1.0 in H<sub>2</sub>O)

**References:**

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Albright, J.D. *et al.*, *J.O.C.*, 1963, **28**, 38, (pmr)

Szantay, C. *et al.*, *Chem. Ber.*, 1976, **109**, 1737, (synth)

Wenkert, E. *et al.*, *J.A.C.S.*, 1979, **101**, 5370, (synth)

Martin, S.F. *et al.*, *Tet. Lett.*, 1985, **26**, 5227, (synth)

Staerk, D. *et al.*, *Planta Med.*, 2000, **66**, 531-536, (isol, pmr, cmr)

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