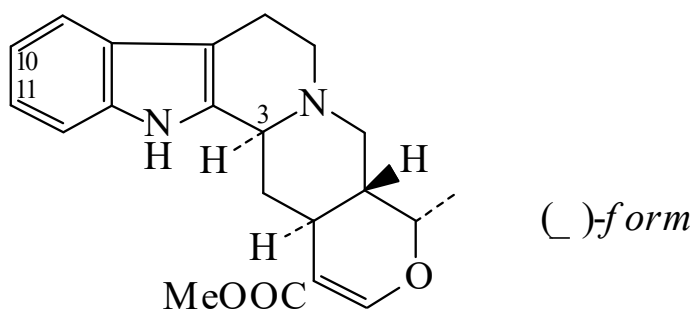




>>Entry Name: Ajmalicine

Synonym(s): Methyl 16,17-didehydro-19-methyloxayohimban-16-carboxylate, 9Cl. Tetrahydroserpentine. Raubasine. δ -Yohimbine. Vinceine. **Vincaine**‡. Py-tetrahydroserpentine. Lamuran



Molecular Formula: C₂₁H₂₄N₂O₃

Molecular Weight: 352.432

Accurate Mass: 352.178693

Percentage Composition: C 71.57%; H 6.86%; N 7.95%; O 13.62%

Use/Importance: Antidiuretic agent, CNS depressant. Vasodilator. Has been used to treat peripheral and cerebral vascular disorders

Calculated Log P Data: Log P 2.76 (calc)

>>Variant: (-)-form

CAS Registry Number: 483-04-5

Molecular Formula: C₂₁H₂₄N₂O₃

Molecular Weight: 352.432

Accurate Mass: 352.178693

Percentage Composition: C 71.57%; H 6.86%; N 7.95%; O 13.62%

Biological Source: Alkaloid from *Rauwolfia serpentina*, many other *Rauwolfia* spp., *Vinca rosea* and many other spp. in the Apocynaceae

Physical Description: Prisms (MeOH)

Melting Point: Mp 259 dec.°

Optical Rotation: [α]_D -66 (CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 227 (ϵ 40740); 280 (ϵ 6920); 292 (ϵ 6160) (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, orl) 400 mg/kg. Human systemic effects by ingestion

Aldrich: 44647-5

Fluka: 5080

Sigma: A2781

>>Derivative: Hydrochloride

Physical Description: Leaflets (EtOH)

Melting Point: Mp 289°

Optical Rotation: [α]_D²⁰ -17 (c, 0.5 in MeOH)

>>Derivative: 3-Epimer

Synonym(s): 3-Isoajmalicine

CAS Registry Number: 483-03-4

Molecular Formula: C₂₁H₂₄N₂O₃

Molecular Weight: 352.432

Accurate Mass: 352.178693

Percentage Composition: C 71.57%; H 6.86%; N 7.95%; O 13.62%

Biological Source: Alkaloid from *Mitragyna* and *Uncaria* spp. (Nauclaeaceae)

Physical Description: Needles (Et₂O)

Melting Point: Mp 193-194°

>>Derivative: 19-Epimer

see Mayumbine, [GNX44-Z](#)

>>Derivative: 20-Epimer

see Tetrahydroalstonine, [BBS49-W](#)

>>Derivative: 3,19-Diepimer