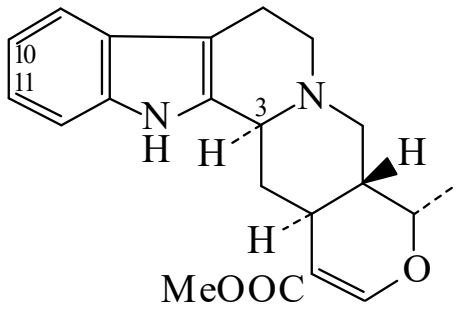
>>**Entry Name: Ajmalicine**

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



(_)-*form*

Molecular Formula: $C_{21}H_{24}N_2O_3$
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: $C_{21}H_{24}N_2O_3$
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: $[\alpha]_D$ –66 ($CHCl_3$)
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O
UV: [neutral] λ_{max} 227 (ε 40740); 280 (ε 6920); 292 (ε 6160) (MeOH) (Berdy)
Hazard & Toxicity: LD_{50} (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: $[\alpha]_D^{20}$ –17 (c, 0.5 in MeOH)

>>**Derivative:** 3-Epimer
Synonym(s): 3-Isoajmalicine

CAS Registry Number: 483-03-4

Molecular Formula: $C_{21}H_{24}N_2O_3$
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. (Naucleaceae)
Physical Description: Needles (Et_2O)
Melting Point: Mp 193-194°

>>**Derivative:** 19-Epimer
see Mayumbine, GNX44-Z

>>**Derivative:** 20-Epimer
see Tetrahydroalstonine, BBS49-W

>>**Derivative:** 3,19-Diepimer