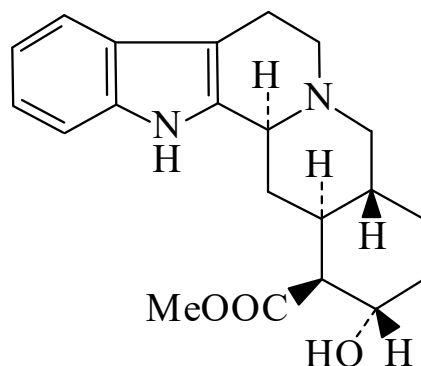




>>Entry Name: Corynanthine

Synonym(s): Methyl 17-hydroxy-yohimban-16-carboxylate, 9Cl. Rauhimbine



Absolute
configuration

CAS Registry Number: 483-10-3

Molecular Formula: $C_{21}H_{26}N_2O_3$

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 *Pseudocinchona africana*, *Corynanthe yohimbe*, *Rauwolfia canescens* and *Pausinystalia macroceras* trunk bark (Rubiaceae, Apocynaceae)

Use/Importance: Strong α_1 -adrenoceptor antagonist, sympatholytic agent

Melting Point: Mp 225-226°

Optical Rotation: $[\alpha]_D -123$ (EtOH). $[\alpha]_D -85$ (Py)

Calculated Log P Data: Log P 2.24 (calc)

UV: [neutral] λ_{max} 226 (); 283 (); 290 () (MeOH) (Berdy)

Sigma: C3255

>>Derivative: Hydrochloride

Melting Point: Mp 285-290°

Optical Rotation: $[\alpha]_D -63$ (H₂O)

>>Derivative: O-Ac

Melting Point: Mp 147°

>>Derivative: Parent acid

Synonym(s): Corynanthic acid

Melting Point: Mp 337° (284°)

Optical Rotation: $[\alpha]_D -85.9$ (c, 1 in Py) (−70.7)

References:

Janot, M.-M. *et al.*, *Bull. Soc. Chim. Fr.*, 1952, 1085, (*uv*)

Antonaccio, L.D. *et al.*, *J.A.C.S.*, 1962, **84**, 2161, (*ms*)

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

Levin, R.H. *et al.*, *J.O.C.*, 1973, **38**, 1983, (*cmr*)

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