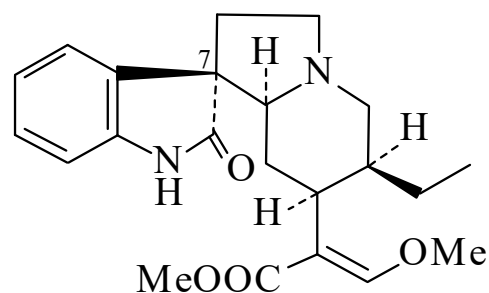




>>Entry Name: Corynoxine

Synonym(s): Corynoxine A



Absolute
configuration

CAS Registry Number: 6877-32-3

Molecular Formula: $C_{22}H_{28}N_2O_4$

Molecular Weight: 384.474

Accurate Mass: 384.204908

Percentage Composition: C 68.73%; H 7.34%; N 7.29%; O 16.65%

Biological Source: Alkaloid from *Pseudocinchona africana*, *Uncaria macrophylla* and *Mitragyna speciosa* (Rubiaceae, Naucleaceae)

Melting Point: Mp 166-168°

Optical Rotation: $[\alpha]_D -3$ ($CHCl_3$). $[\alpha]_D -14$ (c, 1 in Py)

>>Derivative: 7-Epimer

Synonym(s): Corynoxine B. Isocorynoxine

CAS Registry Number: 17391-18-3

Molecular Formula: $C_{22}H_{28}N_2O_4$

Molecular Weight: 384.474

Accurate Mass: 384.204908

Percentage Composition: C 68.73%; H 7.34%; N 7.29%; O 16.65%

Biological Source: Alkaloid from *Uncaria macrophylla* (Naucleaceae)

Physical Description: Noncryst.

>>Derivative: 7,20-Diepimer

see Rhyncophylline, [CHF53-H](#)

>>Derivative: 17-Demethoxy, 7-epimer

Synonym(s): 17-Demethoxycorynoxine B

CAS Registry Number: 119365-65-0

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 the whole plant of *Amsonia brevifolia* (Apocynaceae)

Use/Importance: Cytotoxic

Physical Description: Fine needles

Melting Point: Mp 178-180°

Optical Rotation: $[\alpha]_D +61$ (c, 0.2 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O

UV: [neutral] λ_{max} 214 (); 253 (); 286 () (MeOH) (Berdy)

References:

- Cu, N.A. *et al.*, *Bull. Soc. Chim. Fr.*, 1957, 1292, (*uv, ir*)
Pousset, J.-L. *et al.*, *Tet. Lett.*, 1966, 6283; 1967, 952, (*cd, config, synth*)
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Becket, A.H. *et al.*, *Tetrahedron*, 1969, **25**, 5961, (*ms*)
Phillipson, J.D. *et al.*, *Phytochemistry*, 1973, **12**, 2795, (*epimer*)
Sharma, P. *et al.*, *Phytochemistry*, 1988, **27**, 3649, (*17-Demethoxycorynoxine B*)