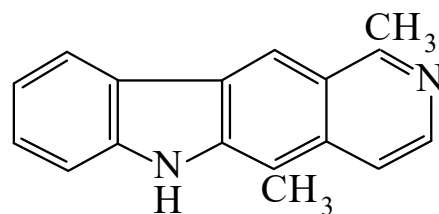




>>Entry Name: Olivacine

Synonym(s): 1,5-Dimethyl-6*H*-pyrido[4,3-*b*]carbazole, 9Cl. Guatambuine



CAS Registry Number: 484-49-1

Molecular Formula: C₁₇H₁₄N₂

Molecular Weight: 246.311

Accurate Mass: 246.115698

Percentage Composition: C 82.90%; H 5.73%; N 11.37%

Biological Source: Alkaloid from several *Aspidosperma* spp., from *Tabernaemontana psychotrifolia*, *Ochrosia* spp. and some other spp. in Apocynaceae

Use/Importance: Antineoplastic agent. Shows v. strong cytotoxic activity vs. human carcinoma KB cells and L1210 leukaemia. Also shows antiprotozoal activity

Melting Point: Mp 318-326 dec.° (315-320°)

Calculated Log P Data: Log P 4.37 (calc)

UV: [neutral] λ_{max} 224 (ε 30200); 237 (sh) (ε 26900); 245 (sh) (ε 21900); 275 (ε 57500); 285 (ε 75900); 293 (ε 70800); 331 (ε 7080); 346 (ε 5010); 380 (ε 3800); 400 (ε 3800) (EtOH) (Derep) [neutral] λ_{max} 224 (); 238 (); 267 (); 276 (); 286 (); 292 (); 314 (); 318 (); 343 () (EtOH) (Berdy) [acid] λ_{max} 242 (); 300 (); 348 () (EtOH-HCl) (Berdy)

Sigma: O6252

>>Derivative: *N*-Oxide

Synonym(s): Olivacine *N*-oxide

CAS Registry Number: 2122-22-7

Molecular Formula: C₁₇H₁₄N₂O

Molecular Weight: 262.31

Accurate Mass: 262.110613

Percentage Composition: C 77.84%; H 5.38%; N 10.68%; O 6.10%

Biological Source: Alkaloid from bark of *Aspidosperma nigricans* (Apocynaceae)

Use/Importance: Shows antineoplastic activity vs. walker 256 carcinosarcoma cells

Melting Point: Mp 304-305 dec.°

Calculated Log P Data: Log P 2.28 (calc)

>>Derivative: 9-Methoxy

Synonym(s): 9-Methoxyolivacine

CAS Registry Number: 16101-08-9

Molecular Formula: C₁₈H₁₆N₂O

Molecular Weight: 276.337

Accurate Mass: 276.126263

Percentage Composition: C 78.24%; H 5.84%; N 10.14%; O 5.79%

Biological Source: Alkaloid from the bark of *Aspidosperma vargasii* (Apocynaceae)

Physical Description: Pale-yellow cryst. (MeOH)

Melting Point: Mp 291-293 dec.°

Other Data: Probable struct.

>>Derivative: 9-Methoxy; methiodide

Melting Point: Mp 340 dec.°

References: