



Biological Source: Alkaloid from the leaves of *Phyllanthus discoides* (Euphorbiaceae)

Physical Description: Orange-yellow cryst. (1-propanol)

Melting Point: Mp 157-158°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -96$ (c, 0.48 in EtOH)

>>**Derivative:** 14,15-Dihydro, 15 α -methoxy

Synonym(s): **14,15-Dihydro-15 α -methoxyphyllorchrysine.** 15 α -Methoxy-14,15-dihydrophyllorchrysine

CAS Registry Number: 128855-48-1

Molecular Formula: C₁₄H₁₉NO₃

Molecular Weight: 249.309

Accurate Mass: 249.136494

Percentage Composition: C 67.45%; H 7.68%; N 5.62%; O 19.25%

Biological Source: Alkaloid from bark and roots of *Margaritaria indica* (Euphorbiaceae)

Physical Description: Needles (petrol)

Melting Point: Mp 141°

Optical Rotation: $[\alpha]_{\text{D}} +71$ (c, 0.6 in MeOH)

>>**Derivative:** 14,15-Dihydro, 15 α -methoxy; hydrobromide

Physical Description: Plates (MeOH/Me₂CO)

Melting Point: Mp 182-183°

>>**Variant:** (+)-form

Synonym(s): **Viroallosecurinine**

CAS Registry Number: 1857-30-3

Molecular Formula: C₁₃H₁₅NO₂

Molecular Weight: 217.267

Accurate Mass: 217.110279

Percentage Composition: C 71.87%; H 6.96%; N 6.45%; O 14.73%

Biological Source: Alkaloid from the leaves of *Securinega virosa* (Euphorbiaceae)

Physical Description: Yellow prisms (Me₂CO)

Melting Point: Mp 136-138°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +1084.6$ (c, 0.05 in EtOH)

References:

- Parello, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1963, 898, (uv, ir, pmr)
Saito, S. *et al.*, *Chem. Ind. (London)*, 1964, 1263, (struct, Viroallosecurinine)
Bevan, C.W.L. *et al.*, *Chem. Ind. (London)*, 1964, 2054, (isol)
Chatterjee, A. *et al.*, *J. Indian Chem. Soc.*, 1964, **41**, 163, (isol, ir, pmr, struct)
Nakano, T. *et al.*, *J.O.C.*, 1964, **29**, 3441, (uv, ord, cd, conformn)
Saito, S. *et al.*, *Yakugaku Zasshi*, 1964, **84**, 1126; *CA*, **62**, 5498d, (isol, Viroallosecurinine)
Mukherjee, R. *et al.*, *Indian J. Chem.*, 1966, **4**, 459, (isol, uv)
Horii, Z. *et al.*, *Chem. Pharm. Bull.*, 1970, **18**, 2009, (synth)
Sankawa, U. *et al.*, *Tet. Lett.*, 1974, 1867, (biosynth)
Beutler, J.A. *et al.*, *J. Nat. Prod.*, 1984, **47**, 677, (cmr)
Mensah, J.L. *et al.*, *J. Nat. Prod.*, 1988, **51**, 1113, (14,15-Dihydroallosecurinine-15 β -ol)
Arbain, D. *et al.*, *Aust. J. Chem.*, 1990, **43**, 439, (15 α -Methoxy-14,15-dihydrophyllorchrysine)