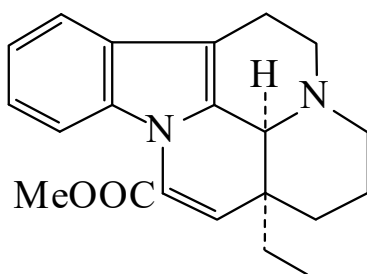




>>Entry Name: Apovincamine, INN

Synonym(s): ApV



Absolute
configuration

CAS Registry Number: 4880-92-6

Related CAS Registry Numbers(s): 65826-02-0

Molecular Formula: $C_{21}H_{24}N_2O_2$

Molecular Weight: 336.433

Accurate Mass: 336.183778

Percentage Composition: C 74.97%; H 7.19%; N 8.33%; O 9.51%

Biological Source: Alkaloid from *Tabernaemontana rigida* (Apocynaceae) and product of dehydration of Vincamine

Use/Importance: Cerebral vasodilator

Melting Point: Mp 160-161°

Optical Rotation: $[\alpha]_D^{26} +118$ (c, 2.11 in $CHCl_3$)

Calculated Log P Data: Log P 4.89 (uncertain value) (calc)

>>Derivative: 14,15-Didehydro

Synonym(s): Apo-14,15-dehydrovincamine

CAS Registry Number: 50298-88-9

Molecular Formula: $C_{21}H_{22}N_2O_2$

Molecular Weight: 334.417

Accurate Mass: 334.168128

Percentage Composition: C 75.42%; H 6.63%; N 8.38%; O 9.57%

Biological Source: Alkaloid from the root bark of *Crioceras dipladeniiflorus* (Apocynaceae)

Physical Description: Amorph.

Optical Rotation: $[\alpha]_D +150$ (c, 1.13 in $CHCl_3$)

References:

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Machova, J. *et al.*, *Arch. Int. Pharmacodyn. Ther.*, 1964, **150**, 516, (*pharmacol*)

Cava, M.P. *et al.*, *J.O.C.*, 1968, **33**, 1055, (*isol*)

Bruneton, J. *et al.*, *Phytochemistry*, 1973, **12**, 1475, (*deriv*)

Szabó, L. *et al.*, *Tetrahedron*, 1983, **39**, 3737, (*synth*)

Jucker, M. *et al.*, *Neurobiol. Aging*, 1990, **11**, 39, (*pharmacol*)

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