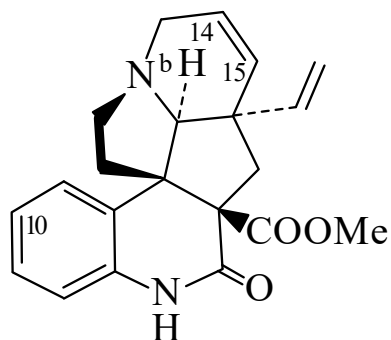




>>Entry Name: Scandine

Synonym(s): 3-(Methoxycarbonyl)meloscine, 9Cl



Absolute
configuration

CAS Registry Number: 24314-59-8

Molecular Formula: C₂₁H₂₂N₂O₃

Molecular Weight: 350.416

Accurate Mass: 350.163043

Percentage Composition: C 71.98%; H 6.33%; N 7.99%; O 13.70%

Biological Source: Alkaloid from *Melodinus scandens* (Apocynaceae)

Physical Description: Prisms (MeOH/EtOH)

Melting Point: Mp 188-192°

Optical Rotation: $[\alpha]_D^{25} +254$ (c, 0.2 in EtOH)

>>Derivative: 10-Hydroxy

Synonym(s): 15-Hydroxy-3-(methoxycarbonyl)meloscine, 9Cl. **10-Hydroxyscandine**

CAS Registry Number: 119188-47-5

Molecular Formula: C₂₁H₂₂N₂O₄

Molecular Weight: 366.416

Accurate Mass: 366.157958

Percentage Composition: C 68.84%; H 6.05%; N 7.65%; O 17.47%

Biological Source: Alkaloid from the stem bark of *Melodinus tenuicaudatus* (Apocynaceae)

Melting Point: Mp 180°

Optical Rotation: $[\alpha]_D +228$ (CHCl₃)

>>Derivative: 14,15-Epoxyde

Synonym(s): **14,15-Epoxyscandine**

Molecular Formula: C₂₁H₂₂N₂O₄

Molecular Weight: 366.416

Accurate Mass: 366.157958

Percentage Composition: C 68.84%; H 6.05%; N 7.65%; O 17.47%

Biological Source: Alkaloid from aerial parts of *Melodinus hemsleyanus* (Apocynaceae)

Physical Description: Prisms (Me₂CO)

Melting Point: Mp 116-118°

>>Derivative: N^b-Oxide

Synonym(s): Scandine N^b-oxide

CAS Registry Number: 140701-69-5

Molecular Formula: C₂₁H₂₂N₂O₄

Molecular Weight: 366.416

Accurate Mass: 366.157958

Percentage Composition: C 68.84%; H 6.05%; N 7.65%; O 17.47%

Biological Source: Alkaloid from *Melodinus fusiformis* (Apocynaceae)

References:

- Bernauer, B.K. *et al.*, *Helv. Chim. Acta*, 1969, **52**, 1886, (uv, ms, pmr)
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Cannon, J.R. *et al.*, *Aust. J. Chem.*, 1982, **35**, 1655, (cryst struct, abs config)
Zhou, Y.L. *et al.*, *Planta Med.*, 1988, **54**, 315, (10-Hydroxyscandine)
He, X. *et al.*, *Huaxue Xuebao*, 1992, **50**, 96; *CA*, **116**, 191092c, (oxide)
Guo, L.-W. *et al.*, *Phytochemistry*, 1993, **34**, 563, (14,15-Epoxyscandine)