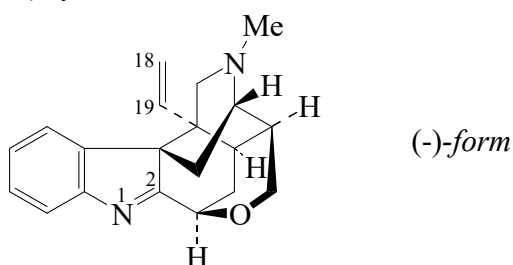




>>Entry Name: Koumine

Synonym(s): 1,2,18,19-Tetrahydro-3,17-epoxy-7,20(2*H*,19*H*)-cyclovobasan, 9Cl



Related CAS Registry Numbers(s): 83705-29-7 119241-69-9

Molecular Formula: C₂₀H₂₂N₂O

Molecular Weight: 306.407

Accurate Mass: 306.173213

Percentage Composition: C 78.40%; H 7.24%; N 9.14%; O 5.22%

>>Variant: (+)-form

Molecular Formula: C₂₀H₂₂N₂O

Molecular Weight: 306.407

Accurate Mass: 306.173213

Percentage Composition: C 78.40%; H 7.24%; N 9.14%; O 5.22%

Source/Synthesis: Synthetic

Optical Rotation: $[\alpha]_D^{24} +218$ (c, 0.200 in EtOH)

>>Variant: (-)-form

CAS Registry Number: 1358-76-5

Molecular Formula: C₂₀H₂₂N₂O

Molecular Weight: 306.407

Accurate Mass: 306.173213

Percentage Composition: C 78.40%; H 7.24%; N 9.14%; O 5.22%

Biological Source: Main alkaloid from *Gelsemium elegans* (Loganiaceae)

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 172°

Optical Rotation: $[\alpha]_D -272$ (EtOH)

UV: [neutral] $\lambda_{\max}$ 220 (log ϵ 4.32); 262 (log ϵ 3.84) (EtOH)

>>Derivative: N^b-Oxide(R-)

Molecular Formula: C₂₀H₂₂N₂O₂

Molecular Weight: 322.406

Accurate Mass: 322.168128

Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%

Source/Synthesis: Semisynthetic by oxidation of Koumine

Physical Description: Cryst. + 2H₂O (Me₂CO)

Melting Point: Mp 214-216°

Optical Rotation: $[\alpha]_D^{19} -157$ (c, 0.14 in MeOH)

>>Derivative: N^b-Oxide(S-)

Synonym(s): Koumine N-oxide

CAS Registry Number: 113900-75-7

Molecular Formula: C₂₀H₂₂N₂O₂

Molecular Weight: 322.406

Accurate Mass: 322.168128

Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%

Biological Source: Alkaloid from the leaves of *Gelsemium elegans* (Loganiaceae)

Physical Description: Cryst. + 1qu; H₂O (Me₂CO)

Melting Point: Mp 111-113°

Optical Rotation: $[\alpha]_D^{19} -237$ (c, 0.14 in MeOH)

>>Derivative: 1,2-Dihydro

Synonym(s): Dihydrokoumine