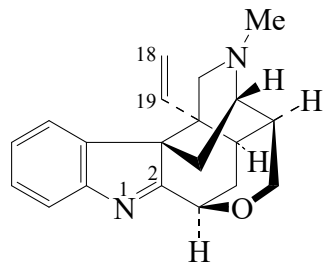
>>**Entry Name: Koumine**
Synonym(s): 1,2,18,19-Tetradehydro-3,17-epoxy-7,20(2*H*,19*H*)-cyclovobasan, 9CI



(-)-*form*

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

Molecular Formula: $C_{20}H_{22}N_2O$
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: $C_{20}H_{22}N_2O$
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: $C_{20}H_{22}N_2O$
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. (Me_2CO)
Melting Point: Mp 172°
Optical Rotation: $[\alpha]_D$ –272 (EtOH)
UV: [neutral] λ_{max} 220 (log ε 4.32); 262 (log ε 3.84) (EtOH)

>>**Derivative:** N^b-Oxide(*R*–)

Molecular Formula: $C_{20}H_{22}N_2O_2$
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. + $2H_2O$ (Me_2CO)
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: $C_{20}H_{22}N_2O_2$
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; H_2O (Me_2CO)
Melting Point: Mp 111-113°
Optical Rotation: $[\alpha]_D^{19}$–237 (c, 0.14 in MeOH)

>>**Derivative:** 1,2-Dihydro
Synonym(s): Dihydrokoumine