Papaveraceae (*Glaucium, Papaver, Dicranostigma*), Ranunculaceae (*Thalictrum*), Rhamnaceae (*Phylica*), Hernandiaceae (*Hernandia*), Atherospermataceae (*Atherosperma, Doryphora*) and Pteridophyllaceae (*Pteridophyllum*)
Biological Use/Importance: Adrenocytic, sedative and cholinergic agent. Shows virtually no antitussive activity
Melting Point: Mp 185°
Optical Rotation: $[\alpha]_D^{23}$+215 (c, 1 in $CHCl_3$)
Solubility: BERDY SOL: Poorly sol. hexane
UV: [neutral] λ_{max} 210 (); 267 (); 302 () (MeOH) (Berdy)
Hazard & Toxicity: LD_{50} (rat, ipr) 10.9 mg/kg

>>**Derivative:** Hydrochloride

CAS Registry Number: 13552-72-2
Melting Point: Mp 215-218° (dec.)
Optical Rotation: $[\alpha]_D^{20}$+170 (c, 0.5 in $CHCl_3$)

>>**Derivative:** *N*-Me
Synonym(s): Menisperine. *N*-Methylisocorydine. Chakranine

CAS Registry Number: 25342-82-9

Molecular Formula: $C_{21}H_{26}NO_4^{(+)}$
Molecular Weight: 356.441
Accurate Mass: 356.186184
Percentage Composition: C 70.76%; H 7.35%; N 3.93%; O 17.95%
Biological Source: Quaternary alkaloid from *Bragantia wallichii, Cryptocarya angulata, Cryptocarya triplinervis, Fagara coco, Legnephora moorei* and many other spp.(Aristolochiaceae, Lauraceae, Rutaceae, Menispermaceae)
Physical Description: Prisms (EtOH)(as chloride)
Melting Point: Mp 217-218 dec.° (slow heating)(chloride). Mp 235° (rapid heating)(chloride)
Optical Rotation: $[\alpha]_D^{15}$+146.3 (c, 0.17 in $CHCl_3$)

>>**Derivative:** *N*-De-Me
Synonym(s): Norisocorydine. Sanjoinine Ib

CAS Registry Number: 475-70-7

Molecular Formula: $C_{19}H_{21}NO_4$
Molecular Weight: 327.379
Accurate Mass: 327.147059
Percentage Composition: C 69.71%; H 6.47%; N 4.28%; O 19.55%
Biological Source: Alkaloid from a variety of genera in the Annonaceae (*Annona, Xylopia*), Hernandiaceae (*Hernandia*), Monimiaceae (*Nemuaron, Peumus*), Papaveraceae (*Glaucium*), Lauraceae (*Cryptocarya*), Fumariaceae (*Corydalis*) and Rhamnaceae (*Zizyphus*)
Melting Point: Mp 203-205° (as hydrobromide)
Optical Rotation: $[\alpha]_D^{20}$+158.5 (c, 0.1 in EtOH) (hydrobromide)
Other Data: Free base unstable

>>**Derivative:** 4*R*-Hydroxy
Synonym(s): Rhopalotine. Crabbine

CAS Registry Number: 151271-85-1

Molecular Formula: $C_{20}H_{23}NO_5$
Molecular Weight: 357.405
Accurate Mass: 357.157624
Percentage Composition: C 67.21%; H 6.49%; N 3.92%; O 22.38%
Biological Source: Alkaloid from *Corydalis lutea* (Fumariaceae) and *Papaver rhopalothece* (Papaveraceae)
Physical Description: Cryst. (MeOH)
Melting Point: Mp 191°
Optical Rotation: $[\alpha]_D$ +162 (c, 0.2 in MeOH)

>>**Variant:** (±)-form

CAS Registry Number: 36284-37-4
Molecular Formula: $C_{20}H_{23}NO_4$
Molecular Weight: 341.406
Accurate Mass: 341.162709
Percentage Composition: C 70.36%; H 6.79%; N 4.10%; O 18.75%
Melting Point: Mp 151-152°