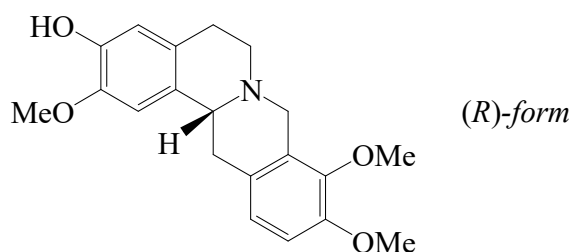




>>Entry Name: **Corypalmine**

Synonym(s): Tetrahydrojatrorrhizine. Discretinine



CAS Registry Number: 13063-54-2

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%

Use/Importance: Shows strong papaverine-like activity

>>Variant: (R)-form

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%

Biological Source: Alkaloid from *Corydalis cava* (Fumariaceae)

Melting Point: Mp 235-236°

Optical Rotation: $[\alpha]_D^{16} +280$ (CHCl₃)

>>Derivative: N-Me

Synonym(s): N-Methylcorypalmine

CAS Registry Number: 169218-54-6

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 *Berberis iliensis*

Melting Point: Mp 230-231° (as iodide)

Optical Rotation: $[\alpha]_D +127.3$ (c, 0.14 in MeOH) (iodide)

>>Variant: (S)-form

CAS Registry Number: 6018-40-2

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%

Biological Source: Alkaloid from *Dicentra oregana* and several *Corydalis* spp. (Fumariaceae)

Physical Description: Cryst. (CHCl₃/MeOH)

Melting Point: Mp 230° (246°)

Optical Rotation: $[\alpha]_D^{27} -274$ (c, 0.2 in CHCl₃)

Rare Chemicals Library: S42648-2

>>Variant: (±)-form

CAS Registry Number: 27313-86-6

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%

Source/Synthesis: Synthetic

Melting Point: Mp 215-217° (207°)

References: