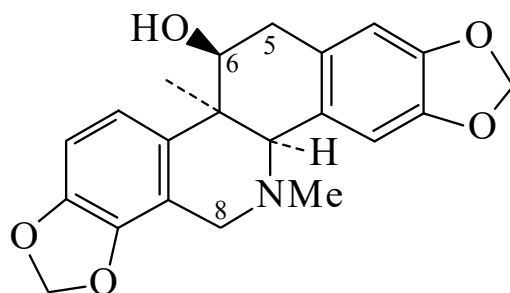




>>Entry Name: Corynoline



(+)-form

Molecular Formula: C₂₁H₂₁NO₅

Molecular Weight: 367.401

Accurate Mass: 367.141974

Percentage Composition: C 68.65%; H 5.76%; N 3.81%; O 21.77%

>>Variant: (+)-form

CAS Registry Number: 18797-79-0

Molecular Formula: C₂₁H₂₁NO₅

Molecular Weight: 367.401

Accurate Mass: 367.141974

Percentage Composition: C 68.65%; H 5.76%; N 3.81%; O 21.77%

Biological Source: Alkaloid from *Corydalis incisa* and *Corydalis solidia* ssp *tauricola* (Fumariaceae)

Physical Description: Cryst. (Me₂CO/Et₂O or MeOH/Et₂O)

Melting Point: Mp 180-181° (178-179°)

Optical Rotation: [α]_D²³+132 (c, 2.64 in CHCl₃) (+116.4)

>>Derivative: O-Sulfate

Synonym(s): Corynoline 6-*O*-sulfate. 13-Methylchelidonine hydrogen sulfate (ester), 9Cl. Corynoline 11-*O*-sulfate

CAS Registry Number: 74045-63-9

Molecular Formula: C₂₁H₂₁NO₈S

Molecular Weight: 447.465

Accurate Mass: 447.098789

Percentage Composition: C 56.37%; H 4.73%; N 3.13%; O 28.60%; S 7.17%

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

Physical Description: Prisms (CHCl₃/MeOH)

Melting Point: Mp 253-254°

Optical Rotation: [α]_D²³+67 (c, 0.19 in MeOH)

>>Derivative: 5 α -Hydroxy

Synonym(s): 5-Hydroxycorynoline. 12-Hydroxycorynoline

Molecular Formula: C₂₁H₂₁NO₆

Molecular Weight: 383.4

Accurate Mass: 383.136889

Percentage Composition: C 65.79%; H 5.52%; N 3.65%; O 25.04%

Biological Source: Alkaloid from *Corydalis bulleyana* whole plants (Fumariaceae)

Physical Description: Plates (MeOH)

Melting Point: Mp 149-150°

Optical Rotation: [α]_D¹⁸+98.6 (EtOH)

>>Derivative: 5 α -Formyloxy

Synonym(s): 5-Formyloxycorynoline. 12-Formyloxycorynoline

Molecular Formula: C₂₂H₂₁NO₇

Molecular Weight: 411.41

Accurate Mass: 411.131804

Percentage Composition: C 64.23%; H 5.14%; N 3.40%; O 27.22%

Biological Source: Alkaloid from *Corydalis bulleyana* whole plants (Fumariaceae)

Physical Description: Prisms (CHCl₃/MeOH)

Melting Point: Mp 209-211°

Optical Rotation: [α]_D²⁰+15 (MeOH)