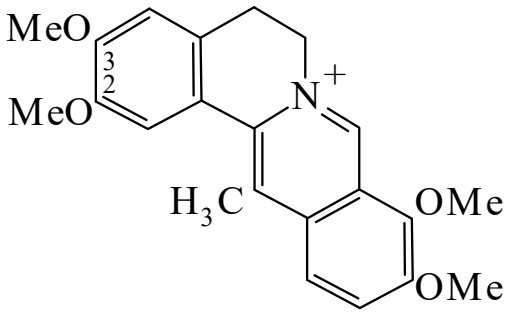
>>**Entry Name: Dehydrocorydaline**



CAS Registry Number: 30045-16-0

Molecular Formula: $C_{22}H_{24}NO_4^{(+)}$
Molecular Weight: 366.436
Accurate Mass: 366.170534
Percentage Composition: C 72.11%; H 6.60%; N 3.82%; O 17.46%
Biological Source: Quaternary alkaloid from *Corydalis ambigua* and several other *Corydalis* spp. and from *Berberis floribunda* (Fumariaceae, Berberidaceae)
Use/Importance: Shows strong gastric antisecretory and antiulcer activity. Uterine contractant

>>**Derivative:** Chloride
Molecular Formula: $C_{22}H_{24}ClNO_4$
Molecular Weight: 401.889
Accurate Mass: 401.139386
Percentage Composition: C 65.75%; H 6.02%; Cl 8.82%; N 3.49%; O 15.92%
Melting Point: Mp 170-180°

>>**Derivative:** Nitrate

Molecular Formula: $C_{22}H_{24}N_2O_7$
Molecular Weight: 428.441
Accurate Mass: 428.158353
Percentage Composition: C 61.68%; H 5.65%; N 6.54%; O 26.14%
Melting Point: Mp 237°

>>**Derivative:** O^2-De-Me
Synonym(s): 13-Methylcolumbamine

CAS Registry Number: 137760-67-9

Molecular Formula: $C_{21}H_{22}NO_4^{(+)}$
Molecular Weight: 352.409
Accurate Mass: 352.154884
Percentage Composition: C 71.57%; H 6.29%; N 3.97%; O 18.16%
Biological Source: Alkaloid from *Corydalis solida* ssp. *brachyloba*

>>**Derivative:** O^3-De-Me
Synonym(s): Dehydrocorybulbine

CAS Registry Number: 59870-72-3

Molecular Formula: $C_{21}H_{22}NO_4^{(+)}$
Molecular Weight: 352.409
Accurate Mass: 352.154884
Percentage Composition: C 71.57%; H 6.29%; N 3.97%; O 18.16%
Biological Source: Quaternary alkaloid from *Corydalis turtschanovii* f. *yahusuo*
Physical Description: Yellow solid (as chloride)
Melting Point: Mp 188-190° (chloride)

References:

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Bhakuni, D.S. *et al.*, *Alkaloids (N.Y.)*, 1986, **28**, 168, *(pharmacol)*
Sener, B. *et al.*, *J. Chem. Soc. Pak.*, 1991, **13**, 63; *CA*, **116**, 3548j, *(13-Methylcolumbamine)*