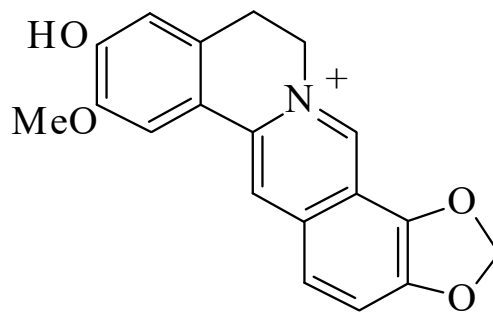




>>Entry Name: Groenlandicine

Synonym(s): 11,12-Dihydro-9-hydroxy-8-methoxybenzo[*a*]-1,3-benzodioxolo[4,5-*g*]quinolizinium, 9Cl. Tetradehydrocheilanthifoline. Alkaloid B



CAS Registry Number: 38691-95-1

Related CAS Registry Numbers(s): 41451-54-1

Molecular Formula: C₁₉H₁₆NO₄⁽⁺⁾

Molecular Weight: 322.34

Accurate Mass: 322.107934

Percentage Composition: C 70.80%; H 5.00%; N 4.35%; O 19.85%

Biological Source: Alkaloid from *Coptis groenlandica*, other *Coptis* spp. cultures of *Nandina domestica* and *Bocconia cordata* (Ranunculaceae, Nandinaceae, Papaveraceae)

Physical Description: Orange needles (as chloride)

Melting Point: Mp 270-275 dec.°

>>Derivative: Me ether

Synonym(s): 11,12-Dihydro-8,9-dimethoxybenzo[*a*]-1,3-benzodioxolo[4,5-*g*]quinolizinium, 9Cl. **Epiberberine**

CAS Registry Number: 6873-09-2

Molecular Formula: C₂₀H₁₈NO₄⁽⁺⁾

Molecular Weight: 336.367

Accurate Mass: 336.123584

Percentage Composition: C 71.42%; H 5.39%; N 4.16%; O 19.03%

Biological Source: Alkaloid from *Berberis floribunda*, *Coptis chinensis*, *Coptis trifolia* and *Nandina domestica*

Physical Description: Orange cryst. (CHCl₃/MeOH)(as chloride)

Melting Point: Mp 260 dec.° (chloride)

UV: [neutral] λ_{max} 227 (); 245 (); 268 (); 361 () (EtOH)

References:

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Cooper, S.F. *et al.*, *Planta Med.*, 1970, **19**, 23; 1972, **21**, 313, (*isol*, *uv*, *ir*, *pmr*)
Jewers, K. *et al.*, *J.C.S. Perkin 2*, 1972, 1393, (*pmr*, *struct*)
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Pai, B.R. *et al.*, *Indian J. Chem., Sect. B*, 1982, **21**, 607-611, (*synth*, *Epiberberine*)
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Mizuno, M. *et al.*, *Phytochemistry*, 1992, **31**, 717-719, (*isol*, *Epiberberine*)