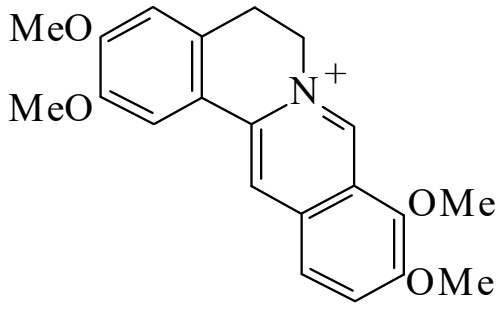
>>**Entry Name: Palmatine**
Synonym(s): 5,6-Dihydro-2,3,9,10-tetramethoxydibenzo[*a,g*]quinolizinium, 9Cl. Berbericinine. Gindarinine. Hindarinine



CAS Registry Number: 3486-67-7

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 *Jateorhiza palmata* (Menispermaceae) and a large number of other spp., mostly in *Berberis* and *Mahonia* (Berberidaceae), but spread into many families
Use/Importance: Uterine contractant. Shows bactericidal activity. Produces antiarrhythmic, inotropic, adrenocorticotropic, anticholinesterase and analgesic effects in expl. animals

>>**Derivative:** Chloride

CAS Registry Number: 10605-02-4
Molecular Formula: $C_{21}H_{22}ClNO_4$
Molecular Weight: 387.862
Accurate Mass: 387.123736
Percentage Composition: C 65.03%; H 5.72%; Cl 9.14%; N 3.61%; O 16.50%
Physical Description: Yellow needles
Melting Point: Mp 205 dec.°

>>**Derivative:** Iodide

Molecular Formula: $C_{21}H_{22}INO_4$
Molecular Weight: 479.314
Accurate Mass: 479.059357
Percentage Composition: C 52.62%; H 4.63%; I 26.48%; N 2.92%; O 13.35%
Physical Description: Orange-yellow needles
Melting Point: Mp 246°

References:

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Skerl, A.R. *et al.*, *Phytochemistry*, 1971, **10**, 2719, *(biosynth)*
Jewers, K. *et al.*, *J.C.S. Perkin 2*, 1972, 1393, *(cmr)*
Pavelka, S. *et al.*, *Coll. Czech. Chem. Comm.*, 1976, **41**, 3157, *(uv)*
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