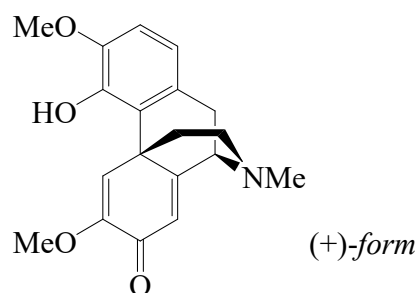




>>Entry Name: Salutaridine

Synonym(s): Floripavine. Sinoacutine. Salutarine



CAS Registry Number: 1936-18-1

Molecular Formula: $C_{19}H_{21}NO_4$

Molecular Weight: 327.379

Accurate Mass: 327.147059

Percentage Composition: C 69.71%; H 6.47%; N 4.28%; O 19.55%

partial racemate

>>Variant: (+)-form

Molecular Formula: $C_{19}H_{21}NO_4$

Molecular Weight: 327.379

Accurate Mass: 327.147059

Percentage Composition: C 69.71%; H 6.47%; N 4.28%; O 19.55%

Biological Source: Alkaloid from *Croton salutaris*, *Croton balsamifera*, *Papaver* spp. and *Glaucium* spp. (Euphorbiaceae, Papaveraceae)

Use/Importance: Intermediate in biosynth. of morphine alkaloids. Shows antitumour activity vs. Walker 256 carcinosarcoma

Physical Description: Rods (EtOAc)

Melting Point: Mp 197-198°

Optical Rotation: $[\alpha]_D +111$ (c, 1.69 in EtOH)

UV: [neutral] λ_{max} 236 (); 279 () (MeOH) (Berdy)

>>Derivative: N-Oxide

Synonym(s): Salutaridine N-oxide

CAS Registry Number: 144860-15-1

Molecular Formula: $C_{19}H_{21}NO_5$

Molecular Weight: 343.379

Accurate Mass: 343.141974

Percentage Composition: C 66.46%; H 6.16%; N 4.08%; O 23.30%

Biological Source: Alkaloid from capsules of *Papaver bracteatum* (Papaveraceae)

Physical Description: Amorph.

Optical Rotation: $[\alpha]_D +52$ (c, 0.146 in MeOH)

>>Derivative: Ac

Molecular Formula: $C_{21}H_{23}NO_5$

Molecular Weight: 369.416

Accurate Mass: 369.157624

Percentage Composition: C 68.28%; H 6.28%; N 3.79%; O 21.65%

Melting Point: Mp 171°

Optical Rotation: $[\alpha]_D +120$ (c, 1.26 in EtOH)

>>Derivative: N-De-Me

Synonym(s): Norsalutaridine

Extra CAS Registry Numbers(s): 55781-26-5

Molecular Formula: $C_{18}H_{19}NO_4$

Molecular Weight: 313.352

Accurate Mass: 313.131409

Percentage Composition: C 69.00%; H 6.11%; N 4.47%; O 20.42%

Biological Source: Alkaloid from *Croton salutaris* (Euphorbiaceae)

Optical Rotation: $[\alpha]_D^{24} +38.6$ (c, 3.4 in EtOH)