>>**Derivative:** *N*-De-Me, *N*-Ac
**Synonym(s): *N*-Acetylnornuciferine

CAS Registry Number: 1942-03-6

Molecular Formula: $C_{20}H_{21}NO_3$
Molecular Weight: 323.391
Accurate Mass: 323.152144
Percentage Composition: C 74.28%; H 6.54%; N 4.33%; O 14.84%
Biological Source: Alkaloid from the heartwood of *Liriodendron tulipifera* (Magnoliaceae)
Physical Description: Cryst. (MeOH)
Melting Point: Mp 229-230°
Optical Rotation: $[\alpha]_D^{25}$ –406 (c, 0.65 in $CHCl_3$)

>>**Derivative:** O^2-De-Me
Synonym(s): 2-Hydroxy-1-methoxyaporphine. **Floribundine.** *N*-Methylasimilobine. *O*-Nornuciferine

CAS Registry Number: 3153-55-7

Molecular Formula: $C_{18}H_{19}NO_2$
Molecular Weight: 281.354
Accurate Mass: 281.141579
Percentage Composition: C 76.84%; H 6.81%; N 4.98%; O 11.37%
Biological Source: Alkaloid from *Nelumbo nucifera* (Nelumbonaceae) and from several genera in the Annonaceae (*Asimina, Xylopia*), Menispermaceae (*Stephania*), Papaveraceae (*Papaver*) and Rhamnaceae (*Colubrina*)
Melting Point: Mp 195-196°
Optical Rotation: $[\alpha]_D^{20}$ –220 (c, 0.40 in $CHCl_3$)

>>**Derivative:** O^2-De-Me, *O*-β-D-glucopyranoside
Synonym(s): *N*-Methylasimilobine glucoside

Molecular Formula: $C_{24}H_{29}NO_7$
Molecular Weight: 443.496
Accurate Mass: 443.194404
Percentage Composition: C 65.00%; H 6.59%; N 3.16%; O 25.25%

Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D^{27}$ –116.1 (c, 0.6 in MeOH)

>>**Derivative:** O^2-De-Me, *O*-α-L-rhamnopyranoside
Synonym(s): Floripavidine

CAS Registry Number: 62867-48-5

Molecular Formula: $C_{24}H_{29}NO_6$
Molecular Weight: 427.496
Accurate Mass: 427.199489
Percentage Composition: C 67.43%; H 6.84%; N 3.28%; O 22.46%
Biological Source: Alkaloid from *Papaver floribundum* (*Papaver fugax*), *Papaver cylindricum, Papaver armeniacum* and *Papaver persicum* (*Papaver tauricola*) (Papaveraceae)
Melting Point: Mp 241-242°
Optical Rotation: $[\alpha]_D$ –156 (c, 1.6 in MeOH)

>>**Derivative:** O^2,*N*-Di-de-Me
Synonym(s): 2-Hydroxy-1-methoxynoraporphine. **Asimilobine‡**

CAS Registry Number: 6871-21-2

Molecular Formula: $C_{17}H_{17}NO_2$
Molecular Weight: 267.327
Accurate Mass: 267.125929
Percentage Composition: C 76.38%; H 6.41%; N 5.24%; O 11.97%
Biological Source: Alkaloid from a wide variety of genera in the Annonaceae (*Anaxagorea, Annona, Asimina, Melodorum, Desmos, Guatteria, Hexalobus, Mitrella, Monanthotaxis, Popowia, Polyalthia, Schefferomitra, Xylopia, Uvaria*), Aristolochiaceae (*Aristolochia*), Magnoliaceae (*Liriodendron, Magnolia*), Atherospermataceae (*Laurelia*), Nelumbonaceae (*Nelumbo*), Lauraceae (*Ocotea*) and Rhamnaceae (*Zizyphus*)
Biological Use/Importance: Serotonin receptor antagonist
Melting Point: Mp 177-179°
Optical Rotation: [α]