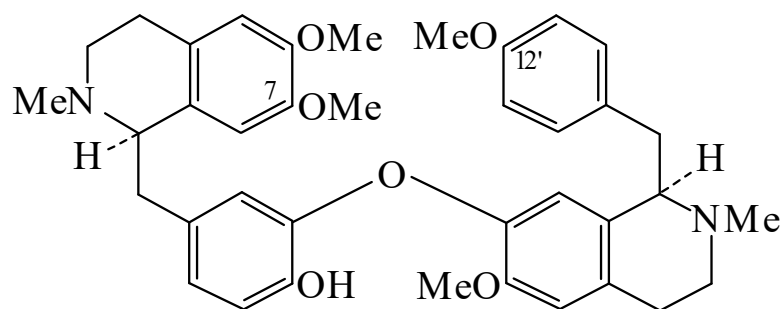




>>Entry Name: Neferine

Synonym(s): 12'-*O*-Methyl liensinine



CAS Registry Number: 2292-16-2

Molecular Formula: $C_{38}H_{44}N_2O_6$

Molecular Weight: 624.775

Accurate Mass: 624.319938

Percentage Composition: C 73.05%; H 7.10%; N 4.48%; O 15.36%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{28} -37.8$ (c, 1.43 in $CHCl_3$). $[\alpha]_D^{27} -100$ (c, 0.24 in MeOH)

>>Derivative: Me ether, styphnate

Melting Point: Mp 139-140° (133-135°)

Optical Rotation: $[\alpha]_D^{29} -93.3$ (c, 0.6 in Me_2CO) (-81.5)

>>Derivative: Methiodide

Melting Point: Mp 179-181°

>>Derivative: *O*⁷-De-Me

Synonym(s): Isoliensinine

CAS Registry Number: 6817-41-0

Molecular Formula: $C_{37}H_{42}N_2O_6$

Molecular Weight: 610.749

Accurate Mass: 610.304288

Percentage Composition: C 72.76%; H 6.93%; N 4.59%; O 15.72%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{22} +49.3$ (Me_2CO). $[\alpha]_D^{29} -43.3$ ($CHCl_3$)

>>Derivative: *O*⁷-De-Me; hydrochloride (1:2)

Physical Description: Cryst. + 4H₂O

Melting Point: Mp 185-186°

>>Derivative: *O*⁷-De-Me; perchlorate (1:2)

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 200-203°

Optical Rotation: $[\alpha]_D^{22} -70$ (Me_2CO)

>>Derivative: *O*^{12'}-De-Me

Synonym(s): Liensinine

CAS Registry Number: 2586-96-1

Molecular Formula: $C_{37}H_{42}N_2O_6$

Molecular Weight: 610.749

Accurate Mass: 610.304288

Percentage Composition: C 72.76%; H 6.93%; N 4.59%; O 15.72%

Melting Point: Mp 95-99°

Optical Rotation: $[\alpha]_D^{31} +15.85$ (c, 0.883 in Me_2CO)