



>>Derivative: 2-Benzoyl, 1,6,8,9,14-penta-Ac

Synonym(s): Wilfordine

CAS Registry Number: 37239-51-3

Molecular Formula: $C_{43}H_{49}NO_{19}$

Molecular Weight: 883.855

Accurate Mass: 883.289884

Percentage Composition: C 58.43%; H 5.59%; N 1.58%; O 34.39%

Biological Source: Alkaloid from *Tripterygium wilfordii* and *Euonymus alatus* (Celastraceae)

Use/Importance: Shows insecticidal props.

Physical Description: Cryst. (Me₂CO/MeOH)

Melting Point: Mp 170-176°

Optical Rotation: $[\alpha]_D^{22} +5$ (c, 5.0 in CHCl₃)

UV: [neutral] λ_{max} 232 (ϵ 22600); 271 (ϵ 4400) (MeOH) (Berdy)

>>Derivative: 26-Benzoyl, 1,2,8,9,14-penta-Ac

Synonym(s): Wilfornine B

Molecular Formula: $C_{43}H_{49}NO_{19}$

Molecular Weight: 883.855

Accurate Mass: 883.289884

Percentage Composition: C 58.43%; H 5.59%; N 1.58%; O 34.39%

Biological Source: Alkaloid from *Tripterygium wilfordii*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D -17.8$ (c, 0.8 in MeOH)

UV: [neutral] λ_{max} 228 (log ϵ 4.17); 265 (log ϵ 3.6) (MeOH)

>>Derivative: 26-Benzoyl, 1,2,6,8,9,14-hexa-Ac

Synonym(s): Wilfornine A

Molecular Formula: $C_{45}H_{51}NO_{20}$

Molecular Weight: 925.893

Accurate Mass: 925.300449

Percentage Composition: C 58.38%; H 5.55%; N 1.51%; O 34.56%

Biological Source: Alkaloid from *Tripterygium wilfordii*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D -41.9$ (c, 1 in MeOH)

UV: [neutral] λ_{max} 228 (log ϵ 4.27); 267 (log ϵ 3.68) (MeOH)

>>Derivative: 6,26-Dibenzoyl, 1,2,8,9,14-penta-Ac

Synonym(s): Wilfornine C

Molecular Formula: $C_{50}H_{53}NO_{20}$

Molecular Weight: 987.963

Accurate Mass: 987.316099

Percentage Composition: C 60.79%; H 5.41%; N 1.42%; O 32.39%

Biological Source: Alkaloid from *Tripterygium wilfordii*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D -50$ (c, 1.1 in MeOH)

UV: [neutral] λ_{max} 231 (log ϵ 4.51); 267 (log ϵ 3.74) (MeOH)

>>Derivative: 2-O-(3-Furancarbonyl), 6,8,9,14-tetra-Ac

Synonym(s): 1-Desacetylwilfortrine

CAS Registry Number: 128638-35-7

Molecular Formula: $C_{39}H_{45}NO_{19}$

Molecular Weight: 831.78

Accurate Mass: 831.258584

Percentage Composition: C 56.32%; H 5.45%; N 1.68%; O 36.55%

Biological Source: Alkaloid from *Tripterygium wilfordii* (Celastraceae)

Melting Point: Mp 179-182°