



Biological Source: Alkaloid from root bark of *Euonymus japonica* (Celastraceae)

Physical Description: Powder

Melting Point: Mp 142°

Optical Rotation: $[\alpha]_D^{25} +9$ (c, 0.3 in CHCl₃)

>> **Derivative:** 2-Benzoyl, 1,8,9,14-tetra-Ac

Synonym(s): Wilforzine

CAS Registry Number: 37239-46-6

Molecular Formula: C₄₁H₄₇NO₁₇

Molecular Weight: 825.819

Accurate Mass: 825.284404

Percentage Composition: C 59.63%; H 5.74%; N 1.70%; O 32.94%

Biological Source: Alkaloid from the roots of *Tripterygium wilfordii* (Celastraceae)

Physical Description: Needles (Me₂CO/MeOH)

Melting Point: Mp 177-178°

Optical Rotation: $[\alpha]_D^{25} +6$ (Me₂CO)

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

Synonym(s): Wilforine‡

CAS Registry Number: 11088-09-8

Molecular Formula: C₄₃H₄₉NO₁₈

Molecular Weight: 867.856

Accurate Mass: 867.294969

Percentage Composition: C 59.51%; H 5.69%; N 1.61%; O 33.18%

Biological Source: Alkaloid from *Tripterygium wilfordii* and *Maytenus senegalensis* (Celastraceae)

Use/Importance: Shows insecticidal props.

Physical Description: Plates (Me₂CO/MeOH)

Melting Point: Mp 169-170°

Optical Rotation: $[\alpha]_D^{25} +30$ (Me₂CO)

>> **Derivative:** 1,2-Dibenzoyl, 8,9,14-tri-Ac

Synonym(s): Ebenifoline WII

CAS Registry Number: 150384-28-4

Molecular Formula: C₄₆H₄₉NO₁₇

Molecular Weight: 887.89

Accurate Mass: 887.300054

Percentage Composition: C 62.23%; H 5.56%; N 1.58%; O 30.63%

Biological Source: Alkaloid from stem bark of *Maytenus ebenifolia* (Celastraceae)

Physical Description: Amorph. solid

Melting Point: Mp 118-122°

Optical Rotation: $[\alpha]_D +61.1$ (c, 0.18 in CHCl₃)

>> **Derivative:** 1,2-Dibenzoyl, 6,8,9,14-tetra-Ac

Synonym(s): Ebenifoline WI

CAS Registry Number: 143439-09-2

Molecular Formula: C₄₈H₅₁NO₁₈

Molecular Weight: 929.927

Accurate Mass: 929.310619

Percentage Composition: C 62.00%; H 5.53%; N 1.51%; O 30.97%

Biological Source: Alkaloid from stem bark of *Maytenus ebenifolia* and *Peritassa compta* (Celastraceae)

Physical Description: Amorph. solid (EtOH)

Melting Point: Mp 222-224°

Optical Rotation: $[\alpha]_D +47.1$ (c, 0.29 in CHCl₃)