



CAS Registry Number: 121795-60-6

Molecular Formula: C₃₁H₄₆O₆

Molecular Weight: 514.701

Accurate Mass: 514.32944

Percentage Composition: C 72.34%; H 9.01%; O 18.65%

Biological Source: Constit. of *Murraya paniculata* rootbark

Physical Description: Granules (hexane)

Melting Point: Mp 77°

Optical Rotation: $[\alpha]_D^{27} -12$ (c, 0.13 in CHCl₃)

>>**Derivative:** 3',4'-Dihydro

Synonym(s): Merrillin

CAS Registry Number: 120787-71-5

Molecular Formula: C₁₅H₁₈O₅

Molecular Weight: 278.304

Accurate Mass: 278.115425

Percentage Composition: C 64.74%; H 6.52%; O 28.74%

Biological Source: Constit. of *Merrillia caloxylon*

Physical Description: Plates

Melting Point: Mp 68°

Optical Rotation: $[\alpha]_D^{20} -15.6$ (c, 0.135 in CHCl₃)

>>**Derivative:** 5'-Hydroxy

Synonym(s): Microfalcatin

Molecular Formula: C₁₅H₁₆O₆

Molecular Weight: 292.288

Accurate Mass: 292.09469

Percentage Composition: C 61.64%; H 5.52%; O 32.84%

>>**Derivative:** 5'-Hydroxy, 5'-O-(3-methylbutanoyl)

Synonym(s): 4'-Isovaleroylmicrofalcatin. Microfalcatin 4'-isovalerate. Micromarin B

CAS Registry Number: 260368-19-2

Molecular Formula: C₂₀H₂₄O₇

Molecular Weight: 376.405

Accurate Mass: 376.152205

Percentage Composition: C 63.82%; H 6.43%; O 29.75%

Biological Source: Constit. of *Micromelum falcatum* and *Micromelum minutum*

Physical Description: Cryst. (hexane/Me₂CO)

Melting Point: Mp 100-105°

Optical Rotation: $[\alpha]_D -1.6$ (c, 0.2 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 211 (log ϵ 4.22); 322 (log ϵ 4.14) (EtOH) [neutral] $\lambda_{\max}$ 207 (log ϵ 4.74); 247 (log ϵ 3.95); 258 (log ϵ 3.93); 322 (log ϵ 4.42) (MeOH)

Other Data: Possesses *threo*-config.

>>**Variant:** (1'R,2'S)-form

Synonym(s): Minumicrolin. Murpanidin

CAS Registry Number: 88546-96-7

Molecular Formula: C₁₅H₁₆O₅

Molecular Weight: 276.288

Accurate Mass: 276.099775

Percentage Composition: C 65.21%; H 5.84%; O 28.95%

Biological Source: Constit. of *Micromelum minutum* and *Murraya paniculata*

Physical Description: Cryst. (EtOAc/MeOH)

Melting Point: Mp 132-135°

Optical Rotation: $[\alpha]_D +17.5$ (c, 0.4 in CHCl₃)

>>**Derivative:** 2'-O-(3-Methylbutanoyl)

Synonym(s): Minumicrolin isovalerate

CAS Registry Number: 131669-17-5