



Optical Rotation: $[\alpha]_D +34.2$ (c, 1 in MeOH)

>>**Derivative:** 3-(3,4-Dihydroxy-5-methoxycinnamoyl)

Synonym(s): 3-(5-Hydroxyferuloyloxy)-20(29)-lupene

CAS Registry Number: 202331-59-7

Molecular Formula: $C_{40}H_{58}O_5$

Molecular Weight: 618.895

Accurate Mass: 618.428425

Percentage Composition: C 77.63%; H 9.45%; O 12.93%

Biological Source: Constit. of *Euclea divinorum*

Physical Description: Orange-red powder

UV: [neutral] λ_{max} 235 (log ϵ 3.29); 326 (log ϵ 3.22) (EtOH) [neutral] λ_{max} 235 (ϵ 1950); 326 (ϵ 1320) (MeOH) (Berdy) [base] λ_{max} 235 (); 331 (); 386 () (MeOH-NAOH) (Berdy)

>>**Derivative:** Me ether

Synonym(s): 3-Methoxy-20(29)-lupene

CAS Registry Number: 25279-38-3

Molecular Formula: $C_{31}H_{52}O$

Molecular Weight: 440.751

Accurate Mass: 440.401815

Percentage Composition: C 84.48%; H 11.89%; O 3.63%

Biological Source: Constit. of *Paspalum dilatatum*

Physical Description: Cryst.

Melting Point: Mp 250-251°

Optical Rotation: $[\alpha]_D^{23} +35.6$ (CHCl₃)

>>**Derivative:** Octadecyl ether

Synonym(s): Lupeyl stearyl ether

CAS Registry Number: 177602-16-3

Molecular Formula: $C_{48}H_{86}O$

Molecular Weight: 679.207

Accurate Mass: 678.667865

Percentage Composition: C 84.88%; H 12.76%; O 2.36%

Biological Source: Constit. of *Pentaclethra eetveldeana*

Physical Description: Gum

Optical Rotation: $[\alpha]_D +17$ (c, 0.2 in CHCl₃)

>>**Derivative:** 20 ξ ,29-Epoxyde

Synonym(s): 20,29-Epoxy-3-lupanol

CAS Registry Number: 109905-13-7

Molecular Formula: $C_{30}H_{50}O_2$

Molecular Weight: 442.724

Accurate Mass: 442.38108

Percentage Composition: C 81.39%; H 11.38%; O 7.23%

Biological Source: Metab. of *Pseudocyphellaria rubella*

Physical Description: No phys. props. reported

>>**Derivative:** 3-Ketone

Synonym(s): 20(29)-Lupen-3-one. **Lupenone.** Lupeone

CAS Registry Number: 1617-70-5

Molecular Formula: $C_{30}H_{48}O$

Molecular Weight: 424.709

Accurate Mass: 424.370515

Percentage Composition: C 84.84%; H 11.39%; O 3.77%

Biological Source: Constit. of *Cneorum tricoccon*, *Adenophora axilliflora* and other plant spp.

Physical Description: Cryst. (MeOH)

Melting Point: Mp 168-170.5°

Optical Rotation: $[\alpha]_D^{20} +60.6$ (c, 0.5 in CHCl₃)