Physical Description: Amorph. solid
Optical Rotation: $[\alpha]_D^{20}$+25.1 (c, 0.5 in $CHCl_3$)
UV: [neutral] λ_{max} 318 (log ε 4.2) (MeOH)

>>**Derivative:** 3-*O*-Ketone
Synonym(s): 28-Hydroxy-20(29)-lupen-3-one. **Betulone**

CAS Registry Number: 7020-34-0

Molecular Formula: $C_{30}H_{48}O_2$
Molecular Weight: 440.708
Accurate Mass: 440.36543
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Biological Source: Constit. of bark of *Betula alleghaniensis* and *Betula lenta*
Physical Description: Cryst.
Melting Point: Mp 207°
Optical Rotation: $[\alpha]_D^{19}$+19.97

>>**Derivative:** 28-*O*-Aldehyde
Synonym(s): 3β-Hydroxy-20(29)-lupen-28-al. **Betulinaldehyde**

CAS Registry Number: 13159-28-9

Molecular Formula: $C_{30}H_{48}O_2$
Molecular Weight: 440.708
Accurate Mass: 440.36543
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Biological Source: Isol. from *Betula pendula, Platanus hybridus, Platanus occidentalis* and *Sarracenia flava*
Physical Description: Needles (EtOH aq.)
Melting Point: Mp 192-193°
Optical Rotation: $[\alpha]_D^{27}$+19.2 (c, 1.1 in $CHCl_3$)

>>**Derivative:** 28-*O*-Aldehyde, Ac
Synonym(s): Acetylbetulinaldehyde

CAS Registry Number: 27570-21-4

Molecular Formula: $C_{32}H_{50}O_3$
Molecular Weight: 482.745
Accurate Mass: 482.375995
Percentage Composition: C 79.62%; H 10.44%; O 9.94%
Biological Source: Isol. from bark of *Platanus occidentalis* and *Platanus hybrida*
Physical Description: Cryst. (Et_2O/MeOH)
Melting Point: Mp 199-200°
Optical Rotation: $[\alpha]_D^{25}$+30.3 (c, 2 in $CHCl_3$)

>>**Derivative:** 28-*O*-Aldehyde, 3-*O*-(4-hydroxy-*E*-cinnamoyl)
Synonym(s): 3-Coumaroylbetulinaldehyde

CAS Registry Number: 221110-12-9

Molecular Formula: $C_{39}H_{54}O_4$
Molecular Weight: 586.853
Accurate Mass: 586.40221
Percentage Composition: C 79.82%; H 9.27%; O 10.91%
Biological Source: Constit. of *Diospyros maritima*
Physical Description: Amorph. solid
Optical Rotation: $[\alpha]_D^{20}$+20.2 (c, 0.4 in $CHCl_3$)
UV: [neutral] λ_{max} 312 (log ε 4.6) (MeOH)

>>**Derivative:** 28-*O*-Aldehyde, 3-*O*-(3,4-dihydroxycinnamoyl)

CAS Registry Number: 244203-72-3