



Physical Description: Amorph. solid
Optical Rotation: $[\alpha]_D^{20} +25.1$ (c, 0.5 in CHCl_3)
UV: [neutral] $\lambda_{\max}$ 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: $\text{C}_{30}\text{H}_{48}\text{O}_2$
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): 3 β -Hydroxy-20(29)-lupen-28-al. **Betulinaldehyde**

CAS Registry Number: 13159-28-9

Molecular Formula: $\text{C}_{30}\text{H}_{48}\text{O}_2$
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: $\text{C}_{32}\text{H}_{50}\text{O}_3$
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: $\text{C}_{39}\text{H}_{54}\text{O}_4$
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] $\lambda_{\max}$ 312 (log ϵ 4.6) (MeOH)

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

CAS Registry Number: 244203-72-3