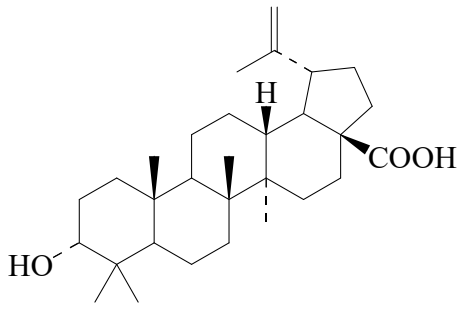
>>**Entry Name: 3-Hydroxy-20(29)-lupen-28-oic acid**



3α-*form*

Molecular Formula: $C_{30}H_{48}O_3$
Molecular Weight: 456.707
Accurate Mass: 456.360345
Percentage Composition: C 78.90%; H 10.59%; O 10.51%

>>**Variant:** 3α-form
Synonym(s): 3-Epibetulinic acid. 3-*epi*-Betulinic acid

CAS Registry Number: 38736-77-5

Molecular Formula: $C_{30}H_{48}O_3$
Molecular Weight: 456.707
Accurate Mass: 456.360345
Percentage Composition: C 78.90%; H 10.59%; O 10.51%
Biological Source: Constit. of *Picramnia pentandra* and other plant spp.
Physical Description: Cryst. (Me_2CO/hexane)
Melting Point: Mp 279-283°
Optical Rotation: $[\alpha]_D^{25}$–11 (c, 0.2 in $CHCl_3$)

>>**Derivative:** 28-*O*-[α-L-Rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl] ester

CAS Registry Number: 136182-02-0

Molecular Formula: $C_{48}H_{78}O_{17}$
Molecular Weight: 927.134
Accurate Mass: 926.523905
Percentage Composition: C 62.18%; H 8.48%; O 29.34%
Biological Source: Constit. of *Oplopanax elatus* and *Schefflera octophylla*. Component of Ci Ren Shen
Physical Description: Powder
Melting Point: Mp 208-210° (182-184°)
Optical Rotation: $[\alpha]_D^{20}$–38.7 (c, 0.4 in MeOH)

>>**Derivative:** 3-*O*-β-D-Glucopyranoside, 28-*O*-[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl] ester
Synonym(s): Cirensenoside E. Cirenshenoside E

CAS Registry Number: 138884-85-2

Molecular Formula: $C_{54}H_{88}O_{22}$
Molecular Weight: 1089.276
Accurate Mass: 1088.57673
Percentage Composition: C 59.54%; H 8.14%; O 32.31%
Biological Source: Constit. of *Oplopanax elatus*
Physical Description: Powder
Melting Point: Mp 218-220°
Optical Rotation: $[\alpha]_D^{20}$–45.9 (c, 1.2 in MeOH)