



>>Derivative: 3-Hexadecanoyl

Synonym(s): **3-Hexadecanoylingenol**. Euphorbia factor I<sub>1</sub>

CAS Registry Number: 52557-26-3

Molecular Formula: C<sub>36</sub>H<sub>58</sub>O<sub>6</sub>

Molecular Weight: 586.851

Accurate Mass: 586.42334

Percentage Composition: C 73.68%; H 9.96%; O 16.36%

Biological Source: Constit. of the latex of *Euphorbia ingens* and of *Euphorbia lathyris*

Physical Description: Oil

Optical Rotation:  $[\alpha]_D^{20} +29.8$  (c, 0.22 in MeOH)

**Hazard & Toxicity:** Irritant. Carcinogenic

>>Derivative: 20-Hexadecanoyl

Synonym(s): **20-Palmitoylingenol**. Euphorbia factor I<sub>2</sub>

CAS Registry Number: 39071-33-5

Molecular Formula: C<sub>36</sub>H<sub>58</sub>O<sub>6</sub>

Molecular Weight: 586.851

Accurate Mass: 586.42334

Percentage Composition: C 73.68%; H 9.96%; O 16.36%

Biological Source: Constit. of *Euphorbia sieboldiana*, *Euphorbia ingens*, *Euphorbia lathyris*, *Euphorbia serrata*

Physical Description: Syrup

Optical Rotation:  $[\alpha]_D^{23} -23.7$  (c, 0.3 in CHCl<sub>3</sub>)

>>Derivative: 20-Eicosanoyl

Synonym(s): **20-Eicosanoylingenol**. Ingenol 20-eicosanoate

CAS Registry Number: 240803-36-5

Molecular Formula: C<sub>40</sub>H<sub>66</sub>O<sub>6</sub>

Molecular Weight: 642.958

Accurate Mass: 642.48594

Percentage Composition: C 74.72%; H 10.35%; O 14.93%

Biological Source: Constit. of *Euphorbia iberica*

Physical Description: Syrup

Optical Rotation:  $[\alpha]_D -3.1$  (c, 0.29 in CHCl<sub>3</sub>)

>>Derivative: 3,20-Dibenzoyl

Synonym(s): Ingenol 3,20-dibenzoate

CAS Registry Number: 59086-90-7

Molecular Formula: C<sub>34</sub>H<sub>36</sub>O<sub>7</sub>

Molecular Weight: 556.654

Accurate Mass: 556.246105

Percentage Composition: C 73.36%; H 6.52%; O 20.12%

Biological Source: Constit. of *Euphorbia esula*

Physical Description: Resin

Optical Rotation:  $[\alpha]_D^{28} +268$  (c, 0.0026 in EtOH)

UV: [neutral]  $\lambda_{\max}$  230 ( $\epsilon$  28900); 272 ( $\epsilon$  2350); 280 ( $\epsilon$  2000) (EtOH) (Berdy)

>>Derivative: 16-Angeloyloxy, 3-(2,4,6-decatrienoyl)

Synonym(s): **Euphorbia factor I<sub>5</sub>**

CAS Registry Number: 52557-27-4

Molecular Formula: C<sub>35</sub>H<sub>46</sub>O<sub>8</sub>

Molecular Weight: 594.744

Accurate Mass: 594.31927

Percentage Composition: C 70.68%; H 7.80%; O 21.52%

Biological Source: Constit. of *Euphorbia ingens*

Other Data: Presumed here to be 2,4,6-decatrienoyl; posn. of double bonds not explicit