

3-O-(2'E,4'E-Decadienoyl)ingenol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 3-O-(2'E,4'E-Decadienoyl)ingenol

Catalog No.: CFN92868

Cas No.: 466663-11-6

Purity: >=95%

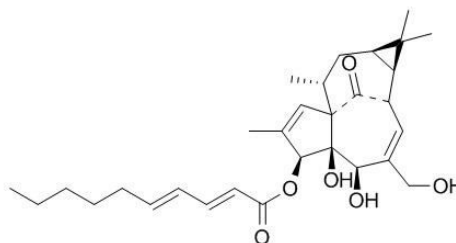
M.F: C₃₀H₄₂O₆

M.W: 498.7

Physical Description: Powder

Synonyms: (2E,4E)-2,4-Decadienoic acid (1aR,2S,5R,5aS,6S,8aS,9R,10aR)-

1a,2,5,5a,6,9,10,10a-octahydro-5,5a-dihydroxy-4-(hydroxymethyl)-1,1,7,9-tetramethyl-11-oxo-1H-2,8a-methanocyclopenta[a]cyclopropa[e]cyclodecen-6-yl ester.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The roots of *Euphorbia kansui* T. N. Liou ex S. B. Ho.

[Biological Activity or Inhibitors]

3-O-(2'E,4'E-Decadienoyl)ingenol , one toxic terpenoid from raw *Gansui*.^[1]

3-O-(2'E,4'E-decadienoyl)-ingenol and 3-O-(2'E,4'Z-decadienoyl)-20-O-acetyl-ingenol show cytotoxicity on Namalwa cells with IC 50 values of 7.6 and 5.2 $\mu\text{mol}\cdot\text{L}^{-1}$, respectively.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[1]

UPLC-MS:

Mobile phase: 0.1% Formic acid in water- 0.1% Formic acid in acetonitrile, gradient elution ;

Flow rate: 0.4 ml/min;

Column temperature: 40 °C;

Capillary voltage: 4.5 kV;

Flow rate of sheath gas:8 L/min;

Temperature of sheath gas: 350 °C;

Flow rate of drying gas:8 L/min;

Temperature of drying gas: 300 °C;

Pressure of nebulizer gas:40 psi;

Fragmentor voltage : 175 V;

Mass scan range:100 to 1700 (m/z).

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Shu X, Jiang X W, Cheng B C, *et al. BMC Complem. Altern. M.*, 2016, 16(1):1-8.

[2] Wang Y B, Li Y Y, Wang H B. *Chinese Journal of Natural Medicines*, 2007, 5(3):1-5.

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