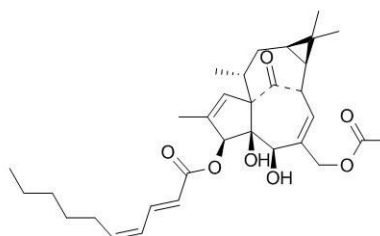


3-O-(2'E ,4'Z-decadienoyl)-20-O-acetylingenol Datasheet4th Edition (Revised in July, 2016)**[Product Information]****Name:** 3-O-(2'E ,4'Z-decadienoyl)-20-O-acetylingenol**Catalog No.:** CFN92864**Cas No.:** 158850-76-1**Purity:** >=95%**M.F:** C₃₂H₄₄O₇**M.W:** 540.7**Physical Description:** Powder**Synonyms:** (2E,4Z)-2,4-Decadienoic acid (1aR,2S,5R,5aS,6S,8aS,9R,10aR)-4-[(acetyloxy)methyl]-1a,2,5,5a,6,9,10,10a-octahydro-5,5a-dihydroxy-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'Z-decadienoyl)-20-O-acetylingenol, one toxic terpenoid from raw *Gansui*.^[1]

3-O-(2'E,4'Z-decadienoyl)-20-O-acetylingenol has strong cytotoxicity against human normal cell lines L-O2 and GES-1 with dose-dependent relationships .^[2]

20-O-acetyl-[3-O-(2'E,4'Z)-decadienoyl]-ingenol and 3-O-(2'E,4'Z)-decadienoylingenol show the same antinematodal activity against the nematode, *Bursaphelenchus xylophilus*, at a minimum effective dose (MED) of 5 microg/cotton ball. ^[3]

3-O-(2'E,4'Z-decadienoyl)-20-O-acetylingenol induces the cytotoxicity of intestinal epithelial cells of rats (IEC-6 cells) depends on induction of cell apoptosis via mitochondrial pathway and cell cycle arrest.^[4]

3-O-(2'E,4'Z-decadienoyl)-20-O-acetylingenol, kansuine B and kansuine A can markedly promote SPL proliferation and NO production by PMphi at concentrations from 0.78 to 12.50 microg/mL, hence they are believed to be important proinflammatory components of the roots of *E. kansui*.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Petroleum ether- Ethyl acetate, gradient elution ;

Flow rate: 15 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 266 nm.

[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] Oztürk N, Korkmaz S, Oztürk Y, *et al. Planta Med.*, 2006, 72(4):289-94.
- [3] Shi J X, Li Z X, Nitoda T, *et al. Biosci. Biotech. Biochem.*, 2007, 71(4):1086-9.
- [4] Gao J, Gao L, Zhang L, *et al. J. Ethnopharmacol.*, 2015, 174(2):331-8.
- [5] Shu X, Yu L, Tang Y, *et al. J.Nat. Med.*, 2010, 64(1):98-103.
- [6] Zhang L, Gao L, Li Z, *et al. Int .J. Mol. Sci.*, 2011, 13(9):11247-59.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com