



3-O-Acetyloleanolic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 3-O-Acetyloleanolic acid

Catalog No.: CFN98668

Cas No.: 4339-72-4

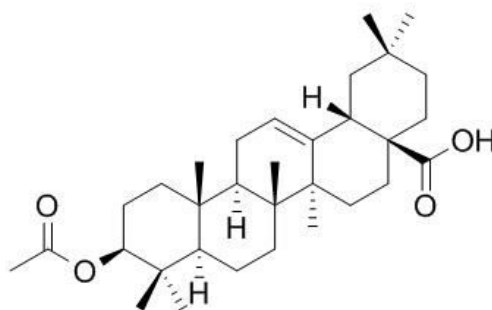
Purity: > 98%

M.F: C₃₂H₅₀O₄

M.W: 498.8

Physical Description: Powder

Synonyms: Oleanolic acid 3-acetate; Acetyl oleanolic acid.



[Intended Use]

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

[Source]

The herbs of *Phytolacca americana*.

[Biological Activity or Inhibitors]

3-O-Acetyloleanolic acid, a pentacyclic triterpenoid isolated from cowpea seeds, inhibits proliferation, migration and tube formation of umbilical vein endothelial cells (HUVECs) in a dose-dependent manner; it exhibits anti-angiogenic effects and induces in HUVECs and suggests that it has a potential use for suppression of the stimulated by angiogenesis.^[1]

3-O-Acetyloleanolic acid has inhibition of angiopoietin-1-induced angiogenesis and lymphangiogenesis, it can inhibit VEGF-A-induced lymphangiogenesis and lymph node metastasis in an oral squamous cell carcinoma animal model.^[2,3]

3-O-Acetyloleanolic acid induces apoptosis in HCT-116 cells mediated by an extrinsic apoptosis signaling cascade via up-regulation of DR5.^[4]

3-O-Acetyloleanolic acid shows a significant decrease in the glucose level of STZ-induced diabetic rats, suggests that it has antihyperglycemic activity.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Methanol -0.4% acetic acid H₂O=81:19 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Cui E J, Hwang-Bo J, Park J H, *et al. Biotechnol. Lett.*, 2013, 35(11):1807-15.

[2] Hong G P, Park J H, Hwang-Bo J, *et al. Int. J.Mol. Med.*, 2014, 34:S27-S27.

- [3] Hwangbo J, Bae M G, Park J H, *et al.* *한국생물공학회 학술대회*, 2016.4, 478-478.
- [4] Ki Hyun Yoo , Jong-Hwa Park , Cui E J, *et al.* *Phytother. Res.*, 2012, 26(10):1541-6.
- [5] Narvaezmastache J M, Garduñoramírez M L, Alvarez L, *et al.* *J.Nat.Prod.*,2006, 69(12):1687-91.
- [6] Zhang W N, Jiang M L, Li H, *et al.* *Chinese Journal of Information on Traditional Chinese Medicine*, 2012 (11): 51-3.

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