

Oleanolic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Oleanolic acid

Catalog No.: CFN98800

Cas No.: 508-02-1

Purity: > 98%

M.F: C₃₀H₄₈O₃

M.W: 456.7

Physical Description: Powder

Synonyms:(4aS,6aR,6aS,6bR,8aR,10S,12aR,14bS)-10-hydroxy-2,2,6a,6b,9,9,12a-hept amethyl-1,3,4,5,6,6a,7,8,8a,10,11,12,13,14b-tetradecahydropicene-4a-carboxylic acid.

[Intended Use]

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

[Source]

The herb of Boehmeria nivea (Linn.) Gaudich.

[Biological Activity or Inhibitors]

Oleanolic acid is a pentacyclic triterpenoid compound with a widespread occurrence

throughout the plant kingdom, it exists either as a free acid or as an aglycone precursor

for triterpenoid saponins, in which it can be linked to one or more sugar chains; oleanolic

acid and its derivatives possess hepatoprotective effects, and anti-inflammatory,

antioxidant, or anticancer activities. [1]

Oleanolic acid may be a promising agent to disturb adipocyte differentiation and suppress

obesity-associated inflammation, 25mol/L oleanolic acid-treated adipocytes can

significantly repress visfatin production possibly through blocking PPAR activation.^[2]

Oleanolic acid and ursolic acid exhibit anti-HCV activity at least partly through

suppressing HCV NS5B RdRp activity as noncompetitive inhibitors, could be used as

potential HCV antivirals that can be applied to clinic trials either as monotherapy or in

combination with other HCV antivirals.[3]

Oleanolic acid may be a possible bioactive agent that blunts adipogenesis and adipokine

inflammation, can suppress adipocyte differentiation-associated resistin and adipogenesis

production by disturbing the Tyk2-STAT1/3 signaling pathway and promoting SOCS3

expression. [4]

[Solvent]

Pyridine, DMSO, Methanol, etc.

[HPLC Method]^[5]

Mobile phase: Methanol - 0.03 M Phosphate buffer (pH 2.8)=88:12;

Flow rate: 1.0 ml/min;

Column temperature: Room temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Pollier J, Goossens A. Phytochemistry, 2012, 77(5):10-15.

[2] Sung H Y, Kang S W, Kim J L, et al. Nutr. Res., 2010, 30(12):831-9.

[3] Kong L, Li S, Liao Q, et al. Antivir Res., 2013, 98(1):44-53.

[4] Kim H S, Sung H Y, Kim M S, et al. Nutr. Res., 2013, 33(2):144-53.

[5] Zhou C, Chen K, Sun C, et al. Biomed. Chromatogr., 2007, 21(7):755-61.

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