

Ursolic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ursolic acid

Catalog No.: CFN97259

Cas No.: 77-52-1

Purity: > 98%

M.F: C₃₀H₄₈O₃

M.W: 456.70

Physical Description: Powder

Synonyms: 3beta-Hydroxyurs-12-en-28-oic acid.

но Н

[Intended Use]

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

[Source]

The herbs of Rhododendron cephalanthum Franch.

[Biological Activity or Inhibitors]

Ursolic acid has anti-tumor, anti-inflammatory, antimicrobial activities, and anti-asthmatic

effects; it is a potential PPAR y agonist, can suppress ovalbumin-induced airway

inflammation and Penh by down-regulating IL-5, IL-13, and IL-17 in a mouse model of

allergic asthma.[1]

Ursolic acid and carnosol have inhibition of skin tumorigenesis.^[2]

Ursolic acid has an antioxidant activity, it can ameliorate cognition deficits and attenuates

oxidative damage in the brain of senescent mice induced by D-galactose, it may offer a

novel therapeutic strategy for the treatment of age-related conditions. [3]

Ursolic acid has antihyperlipidemic, hypoglycemic and direct cardiac effect, its

antihypertensive effect is attributed to its potent diuretic-natriuretic-saluretic activity.[4]

Ursolic acid inhibits IkappaBalpha kinase and p65 phosphorylation, leading to the

suppression of NF-kappaB activation induced by various carcinogens, these actions of

ursolic acid may mediate its antitumorigenic and chemosensitizing effects. [5]

Ursolic acid is potent inhibitors of proliferation and inducer of apoptosis in both KRAS

and BRAF mutated human colorectal cancer cells. [6]

[Solvent]

Dioxane, Pyridine, Methanol, Ethanol, Butanol, Methyl ethyl ketone, etc.

[HPLC Method]^[7]

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] Kim S H, Hong J H, Lee Y C. Eur. J. Pharmacol., 2013, 701(1-3):131-43.

[2] Huang M T, Ho C T, Wang Z Y, et al. Cancer Res., 1994, 54(3):701-8.

[3] Lu J, Zheng Y L, Wu D M, et al. Biochem. Pharmacol., 2007, 74(7):1078-90.

[4] Somova L O, Nadar A, Rammanan P, et al. Phytomedicine, 2003, 10(2-3):115-21.

[5] Shishodia S, Majumdar S, Banerjee S, et al. Cancer Res., 2003, 63(15):4375-83.

[6] Xavier C P, Lima C A. Cancer Lett., 2009, 281(2):162-70.

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

[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