Natural Products

ChemFaces

Pomolic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Pomolic acid

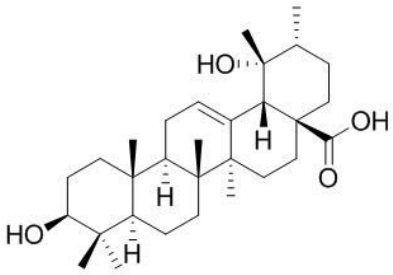
Catalog No.: CFN99433

Cas No.: 13849-91-7

Purity: > 95%

M.F: $C_{30}H_{48}O_4$

M.W: 472.7



Physical Description: Powder

Synonyms: 3β,19-Dihydroxy-5α-urs-12-en-28-oic acid;Benthamic acid;

3β,19-Dihydroxyurs-12-en-28-oic acid.

[Intended Use]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;

5. Others.

[Source]

The herbs of *Euscaphis japonica.*

[Biological Activity or Inhibitors]

Pomolic acid, isolated from R. woodsii and H. capitata, was identified as an anti-HIV agent (EC50 1.4 microg/mL, T. I. 16.6). [1]

Pomolic acid has anti-inflammatory and apoptotic activities.[2]

Pomolic acid-induced apoptosis in cells from patients with chronic myeloid leukemia (CML)exhibiting different drug resistance profile, it may be an effective agent for the treatment of CML.[3]

Pomolic acid exerts anti-cancer properties through the modulation of AMP-activated protein kinase (AMPK) pathways and its value as an anti-cancer agent in breast cancer therapy. [4]

Pomolic acid is a potent inhibitor of the aggregation of human platelets induced by ADP and Epinephrine, exhibits IC50 values close to 60 nM and 20 nM, respectively; pomolic acid does not inhibit human platelet aggregation induced by PAF, collagen, U46619 (thromboxane analogue), TRAP or arachidonic acid; suggests that the hypotensive and platelet anti-aggregating effects of pomolic acid and its potential role in cardiovascular therapy.[5]

Pomolic acid can induce apoptosis in SK-OV-3 cells, which is mediated by the mitochondrial-mediated intrinsic and death receptor-induced extrinsic pathways.[6]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][7]

Mobile phase: Acetonitrile-0.5% Phosphoric acid H2O=72:28;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 205 nm.

[Storage]

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

[References]

[1] Kashiwada Y, Wang H K, Nagao T, *et al. J. Nat.Prod., 1998, 61(9):1090-5.*

[2] Schinella G, Aquila S, Dade M, *et al. Planta Med., 2008, 74(3):215-20.*

[3] Vasconcelos F C, Gattass C R, Rumjanek V M, *et al. Invest. New Drug., 2008, 25(6):525-33.*

[4] Youn S H, Lee J S, Lee M S, *et al. Biol.Pharmaceut.Bull., 2012, 35(1):105-10.*

[5] Estrada O, Alvaradocastillo C, Fernandez A Z, *et al. Current Bioactive Compounds, 2009, 5(3):219-25.*

[6] Yoo K H, Park J H, Lee D K, *et al. Oncol. Lett., 2013, 5(1):386-90.*

[7] Huang JC, Chen F, Chen H, *et al.Traditional Chinese Drug Research & Clinical Pharmacology, 2011, 22(6):679-81.*

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