

Betulinic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Betulinic acid

Catalog No.: CFN98706

Cas No.: 472-15-1

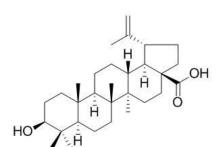
Purity: >=98%

M.F: C₃₀H₄₈O₃

M.W: 456.7

Physical Description: Powder

Synonyms: 3-Beta-hydroxy-20(29)-lupene-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 Ziziphus jujuba.

[Biological Activity or Inhibitors]

Betulinic acid, a pentacyclic triterpene isolated from the bark of the white birch tree, has

been reported to be a selective inducer of apoptosis in tumor cells, it also exhibits

anti-inflammatory and immunomodulatory properties; it inhibits activation of NF-kappaB

and NF-kappaB-regulated gene expression induced by carcinogens and inflammatory

stimuli.[1]

Betulinic acid and platanic acid are inhibitors of HIV replication in H9 lymphocyte cells.[2]

Betulinic acid, a melanoma-specific cytotoxic agent, induced apoptosis in

neuroectodermal tumors, such as neuroblastoma, medulloblastoma, and Ewing's

sarcoma, representing the most common solid tumors of childhood; it can trigger CD95

(APO-1/Fas)- and p53-independent apoptosis via activation of caspases

neuroectodermal tumors, it may be a promising new agent for the treatment of

neuroectodermal tumors in vivo.[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H2O=86:14;

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] Takada Y, Aggarwal B B. J. Immunol., 2003, 171(6):3278-86.

[2] Fujioka T, Kashiwada Y, Kilkuskie R E, et al. J. Nat. Prod., 1994, 57(2):243-7.

[3] Fulda S, Friesen C, Los M, et al. Cancer Res., 1997, 57(21):4956-64.

[4] Zhao G, Yan W, Dan C. J. Pharmaceut. Biomed., 2007, 43(43):959-62.

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