[ Product Information ]

Name: Betulinic acid
Catalog No.: CFN98706
Cas No.: 472-15-1
Purity: >=98%
M.F: C_{30}H_{48}O_{3}
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 in 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 ]


[Contact]

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