

Acetylursolic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Acetylursolic acid

Catalog No.: CFN97219

Cas No.: 7372-30-7

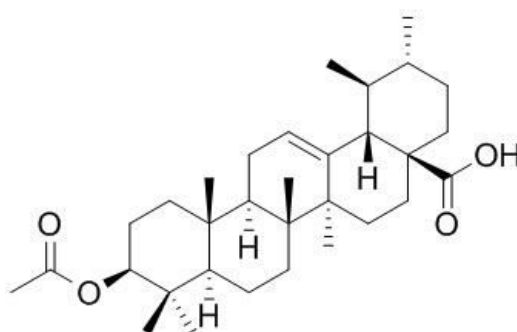
Purity: > 95%

M.F: C₃₂H₅₀O₄

M.W: 498.8

Physical Description: Powder

Synonyms: (3β)-3-(Acetyloxy)-urs-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 *Ilex paraguariensis*.

[Biological Activity or Inhibitors]

Acetylursolic acid, oleanonic acid, betulonic acid show significant cytotoxic activities

against the aforementioned cell lines, with IC₅₀ values in the range 4.0-9.4 microM.^[1]

Acetylursolic acid shows suppression of the SOS-inducing activity of mutagenic heterocyclic amine, Trp-P-1.^[2]

3 β -Acetylursolic acid can reduce parasitaemia against Plasmodium berghei by 94.01% in vivo studies in mice, and it shows cytotoxicity against two human cell lines (HEK293 and HepG2), with IC₅₀ of 366.00 μ g/mL and 566.09 μ g/mL, respectively.^[3]

[Solvent]

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

[HPLC Method]^[4]

HPLC-ELSD:

Mobile phase: Acetonitrile- H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

Drift tube temperature: 85 °C;

Flow rate of gas : 2.64 L/min;

Pressure of gas:5.0 Bar.

[Storage]

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

[References]

[1] Chiang Y M, Chang J Y, Kuo C C, *et al. Phytochemistry*, 2005, 66(4):495-501.

[2] Miyazawa M, Okuno Y, Imanishi K. *J. Agric. Food Chem.*,2005 Mar 23;53(6):2312-5.

[3] Simelane M B, Shonhai A, Shode F O, *et al. Molecules*,2013,18(10):12313-23.

[4] Yang G, Fen W, Lei C, *et al. J. Chromatogr .Sci.*,2009 Sep;47(8):718-22.

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