

Alisol B 23-acetate Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Alisol B 23-acetate

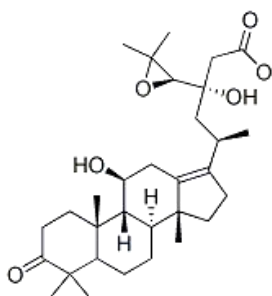
Catalog No.: CFN99753

Cas No.: 26575-95-1

Purity: >=98%

M.F: C₃₂H₅₀O₅

M.W: 514.74



Physical Description: White powder

Synonyms:

(23S,24R)-24,25-Epoxy-11b,23-dihydroxy-8a,9b,14b-dammar-13(17)-en-3-one

23-acetate;(5xi,8alpha,9xi,11beta,14beta,20xi)-11-hydroxy-3-oxo-24,25-epoxydammar-13
(17)-en-23-yl acetate.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The tubers of *Alisma plantago-aquatica* Linn.

[Biological Activity or Inhibitors]

Alisol B 23-acetate, a protostane-type triterpene isolated from the *Alismatis Rhizoma*, it obviously inhibits proliferation of the three ovarian cancer cell lines, down-regulates the protein levels of CDK4, CDK6, and cyclin D1, and blocks the cell cycle progressions in G1 phase; suggests that it possesses anti-proliferation, anti-migration and anti-invasion activities as a single agent on ovarian cancer cells.^[1]

Alisol B 23-acetate could be a transporter substrate for P-glycoprotein (P-gp), it is also a partial non-competitive inhibitor of P-gp when verapamil was used as a substrate, suggests that it may be a potential MDR reversal agent and could serve as a lead compound in the development of novel drugs.^[2]

Alisol B 23-acetate shows moderate cytotoxic activities against B16-F10 and HT1080 tumor cells. ^[3]

Alisol B 23-acetate produces promotive effect on liver regeneration, due to FXR-mediated regulation of genes involved in hepatocyte proliferation and hepato-protection, it has the potential to be a novel therapeutic option for facilitating efficient liver regeneration in patients subjected to liver resection.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-1%Phosphoric acid H₂O =62:38 ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 208 nm.

[Storage]

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

[References]

- [1] Zhang L L, Xu Y L, Tang Z H, *et al. Phytomed. Int. J. Phytother. Phytopharmacol.*, 2016, 23(8):800-9.
- [2] Wang C, Zhang J X, Shen X L, *et al. Biochem. Pharmacol.*, 2004, 68(5):843-55.
- [3] Lee S, Min B, Bae K. *Arch. Pharm. Res.*, 2002, 25(5):608-12.
- [4] Meng Q, Chen X, Wang C, *et al. Biochem. Pharmacol.*, 2014, 92(2):289-98.
- [5] Zhao S, Sun H, Ding Y, *et al. China Pharmacist*, 2014(12):2149-51.

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