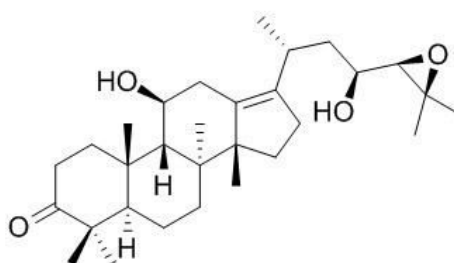


Alisol B Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Alisol B**Catalog No.:** CFN92406**Cas No.:** 18649-93-9**Purity:** > 98%**M.F:** C₃₀H₄₈O₄**M.W:** 472.7**Physical Description:** Cryst.**Synonyms:**

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

(8 α ,9 β ,14 β ,23S,24R)-11 β ,23-Dihydroxy-24,25-epoxy-5 α -dammar-13(17)-en-3-one.**[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, a novel inhibitor of the sarcoplasmic/endoplasmic reticulum Ca⁽²⁺⁾ ATPase pump, can induce autophagy, endoplasmic reticulum stress, and apoptosis, it could be as a potential antitumor agent.^[1]

Alisol B, a novel phyto-steroid, can suppress the RANKL-induced osteoclast formation and prevent bone loss in mice, suggests that alisol-B may be a potential novel therapeutic molecule for bone disorders by targeting the differentiation of osteoclasts as well as their functions.^[2]

Alisol B can inhibit complement 3a-induced human renal tubular epithelial to mesenchymal transition. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=65:35 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 245 nm.

[Storage]

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

[References]

[1] Law B Y, Wang M, Ma D L, *et al. Mol. Cancer Ther.*, 2010, 9(3):718-30.

[2] Lee J W, Kobayashi Y, Nakamichi Y, *et al. Biochem. Pharmacol.*, 2010, 80(3):352-61.

[3] Zhang R F, Wan J X, Xu Y F. *Chinese Journal of Integrated Traditional & Western Medicine*, 2012, 32(10):1407-12.

[4] Wu Y S, Qiu J F, Lin J, *et al.* *China Journal of Experimental Traditional Medical Formulaet*, 2014(2):42-6.

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