

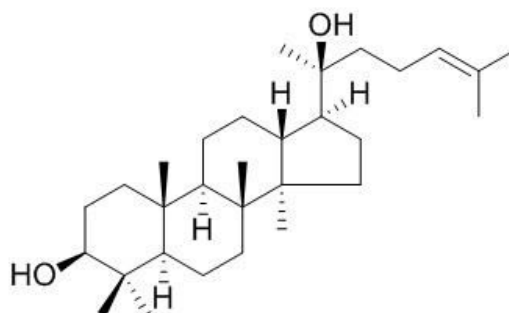
Dammarenediol II Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dammarenediol II**Catalog No.:** CFN99476**Cas No.:** 14351-29-2**Purity:** > 98%**M.F:** C₃₀H₅₂O₂**M.W:** 444.7**Physical Description:** Powder

Synonyms: (3S,5R,8R,9R,10R,14R)-17-[(2S)-2-hydroxy-6-methylhept-5-en-2-yl]-4,4,8,10,14-pentamethyl-2,3,5,6,7,9,11,12,13,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol.



[Intended Use]

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

[Source]

The roots of *Panax ginseng* C.A.Mey.

[Biological Activity or Inhibitors]

Dammarenediol-II synthase is a key rate-limiting enzyme during the process of rice synthesizes dammarane-type ginsenosides.^[1]

Dammarenediol-II can inhibit vascular endothelial growth factor (VEGF)-induced intracellular reactive oxygen species generation and stress fiber formation and vascular endothelial-cadherin disruption, suggests that the natural drug dammarenediol-II may have the ability to prevent diabetic microvascular complications, including diabetic retinopathy.^[2]

The medicinally important dammarenediol-II can be ectopically produced in tobacco, and the production of dammarenediol-II in tobacco plants allows them to adopt a viral defense system.^[3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Huang Z, Lin J, Cheng Z, *et al. Plant Sci.*, 2015, 239:106-14.

[2] Su-Hyeon Kim , Se-Hui Jung , Lee Y J, *et al. Phytother. Res.*, 2015, 29(12):1910-6.

[3] Lee M H, Han J Y, Kim H J, *et al. Plant Cell Physiol.*, 2012, 53(1):173-82.

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