

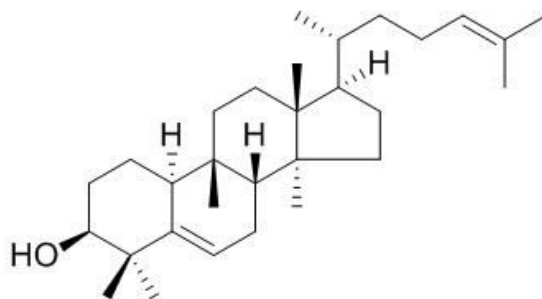
Cucurbitadienol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cucurbitadienol**Catalog No.:** CFN92378**Cas No.:** 35012-08-9**Purity:** > 98%**M.F:** C₃₀H₅₀O**M.W:** 426.7**Physical Description:** Cryst.**Synonyms:** 10 α -Cucurbitadienol;(10 α)-9 β -Methyl-19-norlanosta-5,24-dien-3 β -ol;

(3S,9R,13R,14S)-4,4,9,13,14-pentamethyl-17-[(2R)-6-methylhept-5-en-2-yl]-2,3,7,8,10,11,12,15,16,17-decahydro-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 fresh fruits of *Momordica charantia* L.

[Biological Activity or Inhibitors]

Cucurbitadienol is Cucurbitane type tetracyclic triterpenoids, isolated from a variety of plants in the Cucurbitaceae, has significant anti-inflammatory, anti-tumor effect, is also CucurbitacinBE compounds biosynthesis the key intermediate.^[1]

Cucurbitadienol synthase, the first committed enzyme for cucurbitacin biosynthesis, is a distinct enzyme from cycloartenol synthase for phytosterol biosynthesis.^[2]

CYP87D18 catalyzed the oxidation of cucurbitadienol at C-11 to produce 11-oxo cucurbitadienol and 11-hydroxy cucurbitadienol.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, DMSO, etc.

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Luo Z L, Zhang K L, Ma X J, *et al. Pharm. Biotech.*, 2016 (2).

[2] Shibuya M, Adachi S, Ebizuka Y. *Cheminform*, 2004, 35(45):6995-7003.

[3] Zhang J, Dai L, Yang J, *et al. Plant Cell Physiol.*, 2016,57(5):1000-7.

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