

Cucurbitacin IIb Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cucurbitacin IIb

Catalog No.: CFN90376

Cas No.: 50298-90-3

Purity: >=98%

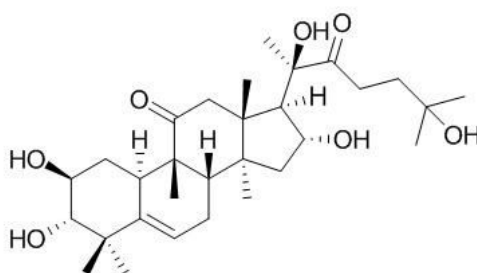
M.F: C₃₀H₄₈O₇

M.W: 520.70

Physical Description: Powder

Synonyms: 23,24-Dihydrocucurbitacin F;

(10 α)-2 β ,3 α ,16 α ,20,25-Pentahydroxy-9 β -methyl-19-norlanost-5-ene-11,22-dione.



[Intended Use]

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

[Source]

The rhizomes of *Hemsleya amabilis* Diels.

[Biological Activity or Inhibitors]

Cucurbitacin IIb (Cullb) exhibits its anti-inflammatory activity through modulating multiple cellular behaviors and signaling pathways, leading to the suppression of the adaptive immune response.^[1]

Cucurbitacin IIb can induce apoptosis of concanavalin A-activated mouse lymphocytes.^[2]

23,24-dihydrocucurbitacin F has anti-proliferative activity on human PCa cells, which may be brought about by inducing actin aggregation and cofilin-actin rod formation, leading to cell cycle arrest, cytokinesis failure, and apoptosis.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-2.0% Acetic acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 215 nm.

[Storage]

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

[References]

[1] Wang Y, Zhao G X, Xu L H, *et al. Plos One*, 2014, 9(2):e89751-e89751.

[2] Hu B, Shi Z J, Wang Y, *et al. Chinese Journal of Pathophysiology*, 2014, 30(3):509-13.

[3] Ren S, Ouyang D Y, Saltis M, *et al. Cancer Chemoth. Pharm.*, 2012, 70(3):415-24.

[4] Feng X S, Wang D C, Cai H, *et al. Journal of Chinese Medicinal Materials*, 2007, 30(4):418-20.

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