Natural Products

ChemFaces

Cucurbitacin A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cucurbitacin A

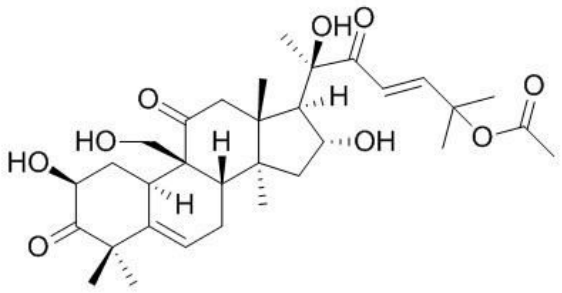
Catalog No.: CFN90324

Cas No.: 6040-19-3

Purity: > 98%

M.F: $C_{32}H_{46}O_9$

M.W: N/A



Physical Description: Powder

Synonyms: Acetic-acid[(E,6R)-6-[(2S,8S,9R,10R,13R,14S,16R,17R)-2,16-dihydroxy-9-(hydroxymethyl)-4,4,13,14-tetramethyl-3,11-dioxo-2,7,8,10,12,15,16,17-octahydro-1H-cyclopenta[a]phenanthren-17-yl]-6-hydroxy-2-methyl-5-oxohept-3-en-2-yl] ester.

[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 I, cytotoxic triterpenoid sterols isolated from plants, elicits the formation of actin/phospho-myosin II co-aggregates by stimulation of the RhoA/ROCK pathway and inhibition of LIM-Kinase.[1]

[Solvent]

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

[HPLC Method][2]

Mobile phase: Methanol:H2O=70:30;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 227 nm.

(Reference the analysis condition of Cucurbitacin B)

[Storage]

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

[References]

[1] Hassoun M S, Clement M J, Hamdi I, *et al. Biochem. Pharmacol., 2015, 102:45-63.*

[2] Peng Z X, Cao M, Zhang Y J, *et al. Chinese J. Modern Applied Pharm., 2009 (11): 946-8.*

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