

Deoxyelephantopin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Deoxyelephantopin

Catalog No.: CFN97764

Cas No.: 29307-03-7

Purity: > 98%

M.F: C₁₉H₂₀O₆

M.W: 344.36

Physical Description: Powder

Synonyms:(3aR,4S,9R,12aR)-11-methyl-3-methylidene-2,7-dioxo-2,3,3a,4,5,9,10,12a-o ctahydro-9,6-(metheno)furo[2,3-f]oxacycloundecin-4(7H)-yl 2-methylprop-2-enoate.

[Intended Use]

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

[Source]

The herbs of Elephantopus scaber L.

[Biological Activity or Inhibitors]

Deoxyelephantopin,a sesquiterpene lactone from Elephantopus scaber, has

antineoplastic effects on lung adenocarcinoma (A549) cells.[1]

Deoxyelephantopin is a novel multifunctional agent, can suppress mammary tumour

growth and lung metastasis and doubles survival time in mice, it has potential as a

chemopreventive agent for breast cancer.[2]

Deoxyelephantopin is reported to potentiate apoptosis, inhibits invasion and abolishes

osteoclastogenesis, it can inhibit cancer cell proliferation and functions as a selective

partial agonist against PPARgamma.[3]

Deoxyelephantopin functions in the modulating multiple molecular targets or signaling

pathways that counteract inflammation during the progression of fulminant hepatitis and

may serve as a novel lead compound for future development of anti-inflammatory or

hepatoprotective agents.[4]

Deoxyelephantopin impedes mammary adenocarcinoma cell motility by inhibiting

calpain-mediated adhesion dynamics and inducing reactive oxygen species and

aggresome formation.[5]

Deoxyelephantopin has wound healing activity.[6]

Deoxyelephantopin has antitumor activity.^[7]

[Solvent]

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

[HPLC Method][8]

Mobile phase: Acetonitrile- H2O= 35:65;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 208 nm.

[Storage]

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

[References]

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[4] Huang CC, Lin K J, Cheng Y W,et al. J. Nutr. Biochem., 2013, 24(3):516-30.

[5] Lee W L, Shyur L F. Free Radical Bio. Med., 2012, 52(8):1423-36.

[6] Singh S D J, Krishna V, Mankani K L, et al. Indian J. Pharmacol., 2005, 37(4):238-42.

[7] Lee K H, † C M C, Wolo M A T. J. Pharm. Sci., 1975, 64(9):1572-3.

[8] Jing W U, Sun L, Wang J F. Anhui Medical & Pharmaceutical Journal, 2014.

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