[ 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-octahydro-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]**

Deoxelephantopin, a sesquiterpene lactone from *Elephantopus scaber*, has antineoplastic effects on lung adenocarcinoma (A549) cells.\(^1\)

Deoxelephantopin 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.\(^2\)

Deoxelephantopin 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.\(^3\)

Deoxelephantopin 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.\(^4\)

Deoxelephantopin impedes mammary adenocarcinoma cell motility by inhibiting calpain-mediated adhesion dynamics and inducing reactive oxygen species and aggresome formation.\(^5\)

Deoxelephantopin has wound healing activity.\(^6\)

Deoxelephantopin 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 °C;

The wave length of determination: 208 nm.
[Storage]
2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[Contact]
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