[Product Information]

Name: Germacrone
Catalog No.: CFN98133
Cas No.: 6902-91-6
Purity: > 98%
M.F: C_{15}H_{22}O
M.W: 218.34

Physical Description: Cryst.
Synonyms: 3,7-Dimethyl-10-propan-2-yldene-1-cyclodeca-3,7-dienone.

[Intended Use]

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

[Source]
The rhizoma of Curcuma wenyujin.

[Biological Activity or Inhibitors]
Germacrone, a natural product isolated from Rhizoma curcuma, can inhibit the proliferation of breast cancer cell lines by inducing cell cycle arrest and apoptosis through mitochondria-mediated caspase pathway. [1]

Germacrone moderately inhibits CYP2B6 and CYP3A4 activities in vitro, with IC50 values below 10 uM, and produces two oxidized metabolites and four glutathione conjugates. [2]

Germacrone has anti-tumor activity against liver cancer via regulating the expression of proteins related to G2/M cell cycle and apoptosis, and p53 and oxidative damage may play important roles in the inhibition of human hepatoma cells growth by germacrone. [3]

Germacrone shows antiviral activity against the H1N1 and H3N2 influenza A viruses and the influenza B virus in a dose-dependent manner, exerts an effective protection of mice from lethal infection and reduces the virus titres in the lung, it could as a therapeutic agent alone or in combination with other agents for the treatment of influenza virus infection. [4]

[ Solvent ]
Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.

[ HPLC Method ] [5]
Mobile phase: Methanol : H2O=80:20 ;
Flow rate: 1.0 ml/min;
Column temperature: Room temperature ;
The wave length of determination: 210 nm.

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

[ References ]


[ Contact ]

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