[ **Product Information** ]

**Name:** Goniothalamin

**Catalog No.:** CFN97803

**Cas No.:** 17303-67-2

**Purity:** > 95%

**M.F:** C_{13}H_{12}O_{2}

**M.W:** 200.23

**Physical Description:** Powder

**Synonyms:** [R,(+)]-5,6-Dihydro-6α-[(E)-2-phenylethenyl]-2H-pyran-2-one;(6R)-(+)-5,6-Dihydro-6-styryl-2-pyrone;(6R)-(+)-Goniothalamin.

[ **Intended Use** ]

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

[ **Source** ]

The herbs of *Goniothalamus griffithii*.

[ **Biological Activity or Inhibitors** ]
Goniothalamin shows potential cytotoxicity against hepatoblastoma HepG2 cells, it selectively kills liver cancer cell through suppression of proliferation and induction of apoptosis.[1]

Goniothalamin has DNA-damaging effect against lung cancer cells, which leads to growth inhibition as well as a depression in migration ability, therefore, goniothalamin has potential as a chemotherapeutic agent against lung cancer.[2]

Goniothalamin induces apoptosis in vascular smooth muscle cells.[3]

Goniothalamin shows potent cytotoxicity with LC$_{50}$ values (5.03 microg/mL) comparable with the reference standard agent, gallic acid, it also shows weak antibacterial and significant antifungal activity against a wide range of gram positive and gram negative bacteria and fungi, the antibacterial (minimum inhibitory concentration) effect against Bacillus cereus and Shigella shiga is 64 microg/mL.[4]

[ Solvent ]

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

[ HPLC Method ][5 ]

Mobile phase: Methanol -H$_2$O,gradient elution;
Flow rate:3.0 ml/min;
Column temperature:Room Temperature;
The wave length of determination:208 nm.

[ Storage ]

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

[ References ]


[Contact]

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