Natural Products

ChemFaces

Ganodermanondiol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ganodermanondiol

Catalog No.: CFN99085

Cas No.: 107900-76-5

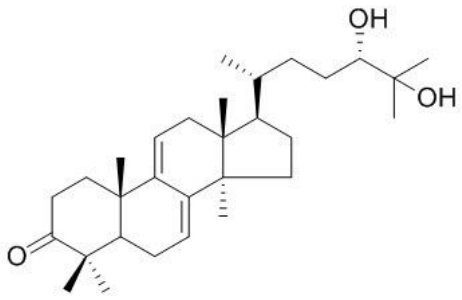
Purity: > 98%

M.F: $C_{30}H_{48}O_3$

M.W: 456.7

Physical Description: Powder

Synonyms: Gadermandiol.



[Intended Use]

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

[Source]

The fruit body of *Ganoderma lucidum.*

[Biological Activity or Inhibitors]

Ganodermanondiol, a biologically active compound, isolated from the *Lingzhi mushroom*

(Ganoderma lucidum), it exhibits potent cytoprotective effects on t-BHP-induced hepatotoxicity in human liver-derived HepG2 cells, presumably through Nrf2-mediated antioxidant enzymes and AMPK. [1]

Ganodermanondiol has an inhibitory effect on the proliferative of HL60 and K562 human tumor cells in a concentration-dependent manner, it has less inhibitory activity on CA46,SMMC7221,HepG2,SW480,SW1116 and SH-SY5Y human tumor cells; thus, ganodermanondiol can significantly inhibit the proliferation of leukemic cancer cells,and it could be one of the antileukemie active constituents of Ganoderma lucidum.[2]

Ganodermanondiol shows a strong anticomplement activity against the classical pathway (CP) of the complement system with IC(50) values of 41.7 microM.[3]

Ganodermanondiol shows significant anti-human immunodeficiency virus (anti-HIV)-1 protease activity with IC50 values of 20-90 microM. [4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Acetonitrile- 0.1%Acetic acid H2O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 252 nm.

[Storage]

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

[References]

[1] Li B, Lee D S, Kang Y, *et al. Food Chem.Toxicol., 2013, 53(3):317-24.*

[2] Li P, Wei X X, Guo X D, *et al. Chinese Journal of Hospital Pharmacy, 2010,*

30(22):1889-91.

[3] Min B S, Gao J J, Hattori M, *et al. Planta Med., 2002, 67(9):811-4.*

[4] Min B S, Nakamura N, Miyashiro H, *et al. Cheminform, 1999, 30(15):1607-12.*

[5] Qi Y, Zhao L, Sun H H. *Front. Pharmacol., 2012, 3(3):85-85.*

[Contact]

Address:
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com