

Ganodermanontriol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ganodermanontriol

Catalog No.: CFN99077

Cas No.: 106518-63-2

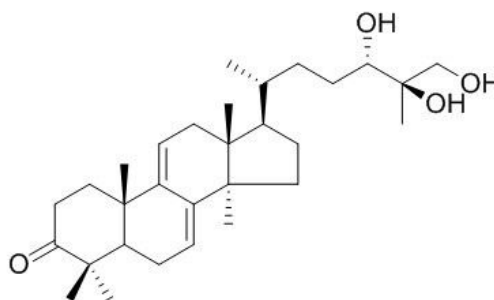
Purity: >=98%

M.F: C₃₀H₄₈O₄

M.W: 472.70

Physical Description: Powder

Synonyms: Gadermantriol; (24S)-24,25,26-trihydroxylanosta-7,9(11)-dien-3-one.



[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]

Ganodermanontriol, a lanostanoid triterpene from *Ganoderma lucidum*, suppresses

growth of colon cancer cells through β -catenin signaling, it may be a potential chemotherapeutic agent for the treatment of cancer.^[1]

Ganodermanontriol has hepatoprotective effect against t-BHP-induced oxidative stress in vitro and in vivo, it induces in vitro and in vivo anti-inflammatory activity in t-BHP-damaged hepatic cells through the expression of HO-1, and in which PI3K/Akt and p38 kinases are involved.^[2]

Ganodermanontriol and ganoderiol F are active as anti-HIV-1 agents with an inhibitory concentration of 7.8 micrograms ml⁻¹ for both. ^[3]

Ganodermanontriol shows antioxidative activities in a dose dependent manner. ^[4]

Ganodermanontriol shows a strong anticomplement activity against the classical pathway (CP) of the complement system with IC₅₀ values of 17.2 microM.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Acetonitrile- 2%Acetic acid, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 252 nm.

[Storage]

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

[References]

[1] Jedinak A, Thyagarajan-Sahu A, Jiang J, *et al. Int. J. Oncol.*, 2011, 38(3):761-7.

[2] Ha D T, Oh J, Khoi N M, *et al. J. Ethnopharmacol.*, 2013, 150(3):875-85.

[3] El-Mekkawy S, Meselhy M R, Nakamura N, *et al. Phytochem.*, 1998, 49(6):1651-7.

[4] Zhu M, Chang Q, Wong L K, *et al. Phytother. Res.*, 1999, 13(6):529–31.

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

[6] Gao J J, Min B S, Ahn E M, *et al. Chem. Pharmaceut. Bull.*, 2002, 50(6):837-40.

[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