

Ganoderic acid A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ganoderic acid A

Catalog No.: CFN92051

Cas No.: 81907-62-2

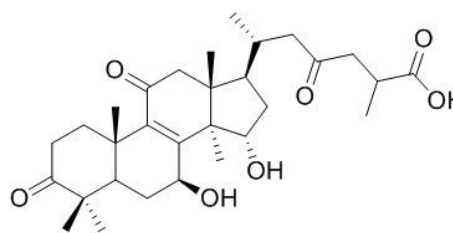
Purity: > 95%

M.F: C₃₀H₄₄O₇

M.W: 516.7

Physical Description: White cryst.

Synonyms: 7Beta,15alpha-Dihydroxy-3,11,23-trioxolanost-8-en-26-oic acid.



[Intended Use]

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

[Source]

The fruiting bodys of *Ganoderma lucidum*

[Biological Activity or Inhibitors]

Ganoderic acid A is a lanostane triterpene isolated from *Ganoderma lucidum*. It exhibits antitumor activity, which is mainly mediated through its inhibitory effect on nuclear transcription factor-kappaB and activator protein-1, it promotes cisplatin-induced cell death by enhancing the sensitivity of HepG2 cells to cisplatin mainly via the signal transducer and activator of transcription 3 suppression. ^[1]

Ganoderic acid A induces a remarkable cytotoxicity in various leukemia and lymphoma cell lines and primary tumors, with a minor toxicity to nonmalignant B-cells, can upregulate pro-apoptotic protein Bax proteins while downregulating anti-apoptotic proteins Bcl-2 and survivin, it may play dual roles in inducing apoptosis and enhancing HLA class II Ag presentation, and could be used as novel adjunctive therapy for the treatment of hematological malignancies.^[2]

Ganoderic acid A can induce proliferation inhibition, apoptosis and suppression of invasion in human osteosarcoma HOS and MG-63 cells, down-regulate the expression level of phosphorylated STAT3 and increase the phosphorylation level of p38 and NF-κB1 expression in both cells. ^[3]

[Solvent]

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

[HPLC Method]^[4]

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

Flow rate: 1.0 ml/min;

Column temperature: 22 °C;

The wave length of determination: 256 nm.

[Storage]

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

[References]

- [1] Yao X, Li G, Xu H, et al. *Planta Med.*, 2012, 78(16):1740-8.
- [2] Haque A, Radwan F F Y, Hossain A, et al. *Cancer Res.*, 2012, 72(8):5641.
- [3] Shao J, Li Z, Jiao G, et al. *Journal of Southern Medical University*, 2015, 35(5):619-24.
- [4] Duan-Ping L U, Chen S, Wang Y, et al. *Modern Chinese Medicine*, 2013, 15(06):496-9.

[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