

Ganoderic acid DM Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ganoderic acid DM

Catalog No.: CFN99815

Cas No.: 173075-45-1

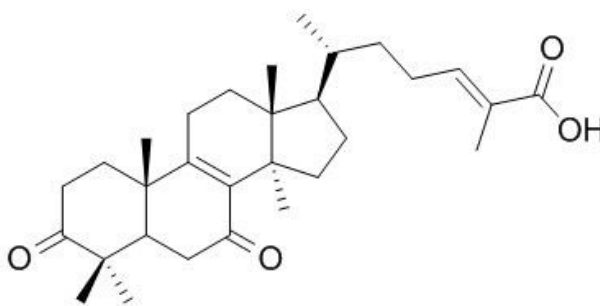
Purity: > 98%

M.F: C₃₀H₄₄O₄

M.W: 468.7

Physical Description: Powder

Synonyms: Gaderic acid DM; 3,7-Dioxolanosta-8,24-dien-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. Ingredient in supplements, beverages;
7. Others.

[Source]

The fruit body of *Ganoderma lucida*.

[Biological Activity or Inhibitors]

Ganoderic acid DM (GADM) is a triterpenoid isolated from *Ganoderma lucidum*, a well-known edible medicinal mushroom, it effectively inhibits cell proliferation and colony formation in MCF-7 human breast cancer cells, which is much stronger than that of MDA-MB-231 breast cancer cells. ^[1]

Ganoderic Acid DM is an antiandrogenic osteoclastogenesis inhibitor.^[2]

Ganoderic acid DM especially suppresses the expression of c-Fos and nuclear factor of activated T cells c1 (NFATc1), this suppression leads to the inhibition of dendritic cell-specific transmembrane protein (DC-STAMP) expression and reduces osteoclast fusion.^[3]

Ganoderic acid DM (GA-DM) has shown toxicity to both androgen-dependent and independent prostate cancer cells with reduced osteoclastogenesis in late stage metastatic disease, it may an alternative agent for the treatment of advanced prostate cancer.^[4]

[Solvent]

Pyridine, DMSO, Chloroform, Acetone.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.04% Formic acid H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

- [1] Wu G S, Lu J J, Guo J J, *et al. Fitoterapia*, 2012, 83(2):408-14.
- [2] Liu J, Shiono J, Shimizu K, *et al. Bioorg. Med. Chem. Lett.*, 2009, 19(19):2154-7.
- [3] Miyamoto I, Liu J, Shimizu K, *et al. Eur. J. Pharmacol.*, 2009, 602(1):1-7.
- [4] Morris J B. *Open Prostate Cancer J.*, 2010, 3(3):78-85.
- [5] Li B M, Gu H F, Li H, *et al. Trad .Chinese Med.*, 2012, 37 (23): 3599-603.

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