

Ganoderic acid C1 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ganoderic acid C1

Catalog No.: CFN92053

Cas No.: 95311-97-0

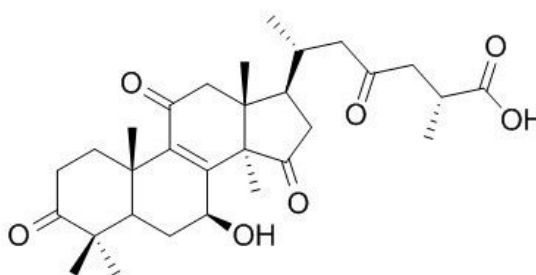
Purity: > 95%

M.F: C₃₀H₄₂O₇

M.W: 514.7

Physical Description: White cryst.

Synonyms: 7-Hydroxy-3,11,15,23-tetraoxolanost-8-en-26-oic acid.



[Intended Use]

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

[Source]

The fruiting bodys of *Ganoderma lucidum*.

[Biological Activity or Inhibitors]

Ganoderic acid C1(GAC1), isolated from the ganoderma mushroom, has cytotoxicity in vitro against Lewis lung carcinoma (LLC), T-47D, Sarcoma 180, and Meth-A tumor cell lines. [1]

Ganoderic acid C1 significantly reduces TNF- α production by murine macrophages (RAW 264.7 cells) and peripheral blood mononuclear cells (PBMCs) from asthma patients; inhibition is associated with down-regulation of NF- κ B expression, and partial suppression of MAPK and AP-1 signaling pathways; suggests that GAC1 may have potential for treating TNF- α mediated inflammation in asthma and other inflammatory diseases. [2]

Ganoderic acid C1 is moderately active inhibitors against HIV-1 PR with a 50% inhibitory concentration of 0.17–0.23mM. [3]

Ganoderic acid C1 can inhibit TNF- α production in RW-stimulated RAW264.7 cells in association with suppression of phosphorylated I κ B and increases HDAC2 expression, GAC1 may be a valuable option for treating neutrophil-predominant asthma. [4]

[Solvent]

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

[HPLC Method] [5]

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

Flow rate: 1.0 ml/min;

Column temperature: 15 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

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

[2] Liu C, Nan Y, Ying S, *et al.* *Int. Immunopharmacol.*, 2015, 27(2):1556-8.

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

[4] Srivastava K D, Dunkin D, Liu C, *et al.* *Ann. Aller Asthma Im.*, 2014, 112(4):1-2.

[5] Li B M, Gu H F, Li Y, *et al.* *China Journal of Chinese Materia Medica*, 2012, 37(23):
3599-603.

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