[**Product Information**]

**Name:** Ganoderic acid C1

**Catalog No.:** CFN92053

**Cas No.:** 95311-97-0

**Purity:** > 95%

**M.F:** C_{30}H_{42}O_{7}

**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.\textsuperscript{[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-κB 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.\textsuperscript{[2]}

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

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

\textbf{[ Solvent ]}

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

\textbf{[ HPLC Method ]}\textsuperscript{[5]}

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

Flow rate: 1.0 ml/min;

Column temperature: 15 ℃;

The wave length of determination: 254 nm.

\textbf{[ Storage ]}

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

\textbf{[ References ]}


**[Contact]**

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