[ **Product Information** ]

**Name:** Ganoderiol F

**Catalog No.:** CFN99244

**Cas No.:** 114567-47-4

**Purity:** > 98%

**M.F:** C₃₀H₄₆O₃

**M.W:** 454.7

**Physical Description:** Powder

**Synonyms:** 26,27-Dihydroxylanosta-7,9(11),24-trien-3-one;(5R,10S,13R,14R,17R)-17-[(2R)-7-hydroxy-6-(hydroxymethyl)hept-5-en-2-yl]-4,4,10,13,14-pentamethyl-1,2,5,6,12,15,16,17-octahydrocyclopenta[a]phenanthren-3-one;Lanosta-7,9(11),24-trien-3-one,26,27-dihydroxy-.

[ **Intended Use** ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Care and daily chemicals;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.
The fruit body of *Ganoderma lucidum*.

**[Biological Activity or Inhibitors]**

Ganoderiol F (GolF), a tetracyclic triterpene, was isolated from *Ganoderma amboinense* and found to induce senescence of cancer cell lines, it induces growth arrest of cancer cell lines HepG2, Huh7 and K562; activation of the mitogen-activated protein kinase EKR and up-regulation of cyclin-dependent kinase inhibitor p16 were found in early stages of GolF treatment and were presumed to cause cell-cycle arrest and trigger premature senescence of HepG2 cells; suggests that the growth-arrest and senescence induction capability on cancer cells suggest anticancer potential of GolF.[1] Ganoderiol-F could be developed further as both anti-HIV and antimalaria, the affinity of ganoderiol-F is higher towards HIV-1 protease (binding energy= -11.40 kcal/mol and Ki= 4.68 nM) than to plasmepsin I (binding energy= -9.96 kcal/mol and Ki= 50.94 nM), meanwhile pepstatin-A has better affinity towards HIV-1 protease (binding energy= -4.52 kcal/mol and Ki= 496.13 uM) than to plasmepsin I (binding energy= -3.07 kcal/mol and Ki= 5.98 mM).[2]

Ganoderiol F shows binding activity to androgen receptor and inhibits LNCaP cell proliferation.[3]

**[Solvent]**

Chloroform, Dichloromethane, Ethyl Acetate, Ethyl ether, DMSO.

**[HPLC Method]**[4]

Mobile phase: Methanol -H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.
[ Storage ]
2-8℃, Protected from air and light, refrigerate or freeze.

[ References ]

[ Contact ]
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