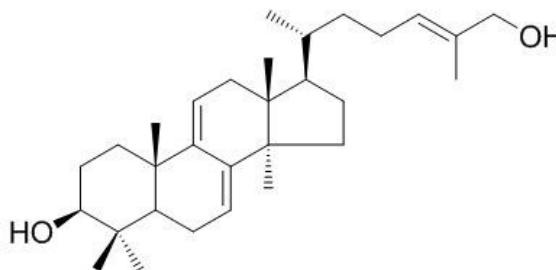


## Ganoderol B Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)**[ Product Information ]****Name:** Ganoderol B**Catalog No.:** CFN99064**Cas No.:** 104700-96-1**Purity:** >98%**M.F:** C<sub>30</sub>H<sub>48</sub>O<sub>2</sub>**M.W:** 440.7**Physical Description:** Powder**Synonyms:** (3β,24E)-Lanosta-7,9(11),24-trien-3,26-diol; ganodermadiol; (24E)-5α-Lanosta-7,9(11),24-triene-3β,26-diol; Ganodermadiol.**[ Intended Use ]**

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

**[ Source ]**The fruiting body of *Ganoderma lucidum*.**[ Biological Activity or Inhibitors ]**

Ganoderol B with 5α-reductase inhibitory activity and the ability to bind to androgen

receptor (AR) can inhibit androgen-induced LNCaP cell growth and suppress regrowth of the ventral prostate induced by testosterone in rats, suggests that ganoderol B might be useful in prostate cancer and benign prostatic hyperplasia (BPH) therapy through suppressing the function of androgen and its receptor.<sup>[1]</sup>

Ganoderol B, isolated from the fruiting body of *Ganoderma lucidum*, is a potent  $\alpha$ -glucosidase inhibitor, and  $\alpha$ -Glucosidase inhibitor has considerable potential as a diabetes mellitus type 2 drug because it prevents the digestion of carbohydrates, suggests that ganoderol B could be a diabetes mellitus type 2 drug.<sup>[2]</sup>

Ganoderol B inhibits LNCaP cell expressed androgen receptor (AR), the inhibitory activity caused by its anti-androgen effect.<sup>[3]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, Methanol.

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol-H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Liu J, Shimizu K, Konishi F, *et al.* *Bioorgan. Med. Chem.*, 2007, 15(14):4966-72.

[2] Fatmawati S, Shimizu K, Kondo R. *Phytomed. Int. J. Phytother. Phytopharmacol.*, 2011, 18(12):1053-5.

[3] Zhang J, Zhang H, Jia W, *et al.* *Chinese fungi Society 2015 Annual Conference Abstract Book. 2015.*

[4] Zhao J, Zhang X, Li S, *et al.* *J. Sep. Sci.*, 2006, 29(17):2609-15.

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