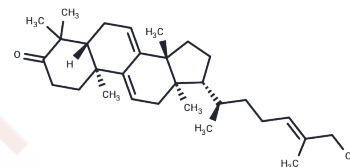


## Ganoderol A

## Chemical Properties

CAS No. :	104700-97-2
Formula:	C <sub>30</sub> H <sub>46</sub> O <sub>2</sub>
Molecular Weight:	438.69
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ganoderol A has significant anti-inflammatory activity and protection against UVA damage. It has an inhibitory effect on angiotensin converting enzyme activity and cholesterol biosynthesis.
Targets(IC50)	Others, Antibacterial
In vitro	The cytotoxicity and in vitro protective effect of Ganoderol A against UVA damage were evaluated by MTT assay. Apoptosis and cell-cycle arrest of NIH/3T3 fibroblast cells were assayed by fluorescence-activated cell sorting (FCS). Expression of monocyte chemotactic protein-1 (MCP-1) and inducible nitric oxide synthase (iNOS) were determined using quantitative real-time polymerase chain reaction (qPCR). Results: The results indicate that the maximal non-toxic concentration of Ganoderol A in NIH/3T3 cells and RAW 264.7 macrophages was 50 and 25 µg/mL respectively. DNA in the tails and tail length decreased by 55 and 70%, respectively, in the group pretreated with Ganoderol A compared with the UVA-treated group. G1 phase cells decreased by 23%, whereas the number of apoptotic cells returned to normal. The expression of MCP-1 and iNOS declined to 60 and 15%, respectively, compared with LPS-stimulated group.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2795 mL	11.3976 mL	22.7951 mL
5 mM	0.4559 mL	2.2795 mL	4.559 mL
10 mM	0.228 mL	1.1398 mL	2.2795 mL
50 mM	0.0456 mL	0.228 mL	0.4559 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

In vitro Protective Effect of Ganoderol A Isolated from Ganadermalucidum Against Ultraviolet A Radiation and its Anti-inflammatory Properties Trop. J. Pharm. Res., 2015, 14(3):412-21.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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