PRODUCT INFORMATION



Ganodermanondiol

Item No. 39776

CAS Registry No.:	107900-76-5	∖ OH
Formal Name:	24S,25-dihydroxy-lanosta-	¥
	7,9(11)-dien-3-one	
MF:	$C_{30}H_{48}O_3$	
FW:	456.7	с I /н
Purity:	≥98%	
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥4 years	0
Item Origin:	Fungus/Ganoderma sp.	/ \ "

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ganodermanondiol is supplied as a solid. A stock solution may be made by dissolving the ganodermanondiol in the solvent of choice, which should be purged with an inert gas. Ganodermanondiol is soluble in DMSO.

Description

Ganodermanondiol is a triterpenoid that has been found in G. lucidum and has diverse biological activities.¹⁻⁵ It inhibits the proliferation of Meth A sarcoma and LLC1 lung carcinoma cells $(IC_{50}s = 3.4 \text{ and } 12.5 \text{ }\mu\text{g/ml}, \text{ respectively}).^2$ Ganodermanondiol (20 μ M) reduces the viability of RAW 264.7 macrophages.³ It inhibits superoxide generation in, and elastase release from, isolated human neutrophils induced by N-formyl-Met-Leu-Phe (fMLF; Item No. 21495) and cytochalasin B (Item No. 11328) with IC₅₀ values of 6.36 and 5.01 µg/ml, respectively.⁴ Ganodermanondiol inhibits complement-dependent hemolysis of isolated sheep red blood cells (IC₅₀ = 41.7 μ M).⁵

References

- 1. Akihisa, T., Nakamura, Y., Tagata, M., et al. Anti-inflammatory and anti-tumor-promoting effects of triterpene acids and sterols from the fungus Ganoderma lucidum. Chem. Biodivers. 4(2), 224-231 (2007).
- 2. Min, B.S., Gao, J.J., Nakamura, N., et al. Triterpenes from the spores of Ganoderma lucidum and their cytotoxicity against meth-A and LLC tumor cells. Chem. Pharm. Bull. (Tokyo) 48(7), 1026-1033 (2000).
- 3. Choi, S., Nguyen, V.T., Tae, N., et al. Anti-inflammatory and heme oxygenase-1 inducing activities of lanostane triterpenes isolated from mushroom Ganoderma lucidum in RAW264.7 cells. Toxicol. Appl. Pharmacol. 280(3), 434-442 (2014).
- 4. Thang, T.D., Kuo, P.-C., Hwang, T.-L., et al. Triterpenoids and steroids from Ganoderma mastoporum and their inhibitory effects on superoxide anion generation and elastase release. Molecules 18(11), 14285-14292 (2013).
- 5. Min, B.S., Gao, J.J., Hattori, M., et al. Anticomplement activity of terpenoids from the spores of Ganoderma lucidum. Planta Med. 67(9), 811-814 (2001).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

uyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website

Copyright Cayman Chemical Company, 12/01/2023

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM