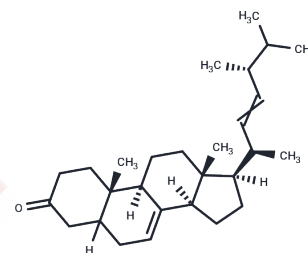


Ergosta-7,22-dien-3-one

Chemical Properties

CAS No. :	32507-77-0
Formula:	C ₂₈ H ₄₄ O
Molecular Weight:	396.65
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Ergosta-7,22-dien-3-one is a lanosterane that can be isolated from the substrates of <i>Ganoderma taiwanensis</i> . It exhibits pro-inflammatory properties, stimulating nitric oxide production, inducing gene expression, and promoting the production of TLRs, cytokines, chemokines, and cellular adhesion molecules.
Targets(IC50)	NO Synthase,LTR
In vitro	Ergosta-7,22-dien-3-one, isolated from a wild Mexican strain of <i>Ganoderma oerstedii</i> . According study, Ergosta-7,22-dien-3-one did not present any cytotoxic effect on HeLa or J774A.1 cells, and it was able to stimulate nitric oxide production, induce the expression of genes, and induce the production of TLRs, cytokines, chemokines, and cellular adhesion molecules in J774A.1 cells, based on reverse-transcriptase polymerase chain reaction and enzyme-linked immunosorbent assay. Here we report a new pro-inflammatory property of Ergosta-7,22-dien-3-one, which should be considered as a possible adjuvant property in view of its biological activity.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5211 mL	12.6056 mL	25.2111 mL
5 mM	0.5042 mL	2.5211 mL	5.0422 mL
10 mM	0.2521 mL	1.2606 mL	2.5211 mL
50 mM	0.0504 mL	0.2521 mL	0.5042 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

- Ramos-Ligonio A, et al. In Vitro Expression of Toll-Like Receptors and Proinflammatory Molecules Induced by Ergosta- 7,22-Dien-3-One Isolated from a Wild Mexican Strain of *Ganoderma oerstedii* (Agaricomycetes). *Int J Med Mushrooms*. 2017;19(3):203-211.
- Ko HH, et al. Antiinflammatory triterpenoids and steroids from *Ganoderma lucidum* and *G. tsugae*. *Phytochemistry*. 2008;69(1):234-239.
- Gao J, et al. Cytotoxic constituents of *Lasiosphaera fenzlii* on different cell lines and the synergistic effects with paclitaxel. *Nat Prod Res*. 2016;30(16):1862-1865.

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