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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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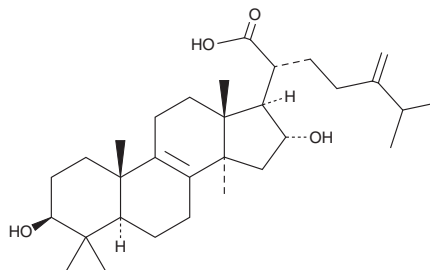
PRODUCT INFORMATION



Tumulosic Acid

Item No. 36021

CAS Registry No.: 508-24-7
Formal Name: (3 β ,16 α)-3,16-dihydroxy-24-methylene-lanost-8-en-21-oic acid
Synonym: Polyporenic Acid B
MF: C₃₁H₅₀O₄
FW: 486.7
Purity: \geq 98%
Supplied as: A solid
Storage: -20°C
Stability: \geq 4 years
Item Origin: Fungi/*Poria cocos*



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

Laboratory Procedures

Tumulosic acid is supplied as a solid. A stock solution may be made by dissolving the tumulosic acid in the solvent of choice, which should be purged with an inert gas. Tumulosic acid is soluble in the organic solvent DMSO at a concentration of approximately 10 mM.

Description

Tumulosic acid is a triterpene that has been found in *Poria cocos* and has diverse biological activities.¹⁻⁴ It inhibits DNA topoisomerase I and II by 83.3 and 75.5%, respectively, when used at a concentration of 100 μ M.¹ Tumulosic acid also inhibits kallikrein 5 and trypsin but not kallikrein 7 or chymotrypsin C (IC₅₀ = 14.8, 45.3, >100, and >100 μ M for the human enzymes, respectively).² It inhibits LPS-induced nitric oxide (NO) production (IC₅₀ = 42.5 μ M) and activator protein 1 (AP-1) transcriptional activity in RAW 264.7 macrophages.³ Tumulosic acid (30 μ g/ear) reduces ear edema induced by phorbol 12-myristate 13-acetate (TPA; Item No. 10008014) in mice.⁴

References

1. Gao, L., Xu, M.-L., Lee, C.-S., *et al.* Cytotoxicity and DNA topoisomerases inhibitory activity of constituents from the sclerotium of *Poria cocos*. *Arch. Pharm. Res.* **27(8)**, 829-833 (2004).
2. Matsubara, Y., Matsumoto, T., Koseki, J., *et al.* Inhibition of human kallikrein 5 protease by triterpenoids from natural sources. *Molecules* **22(11)**, 1829 (2017).
3. Cai, T.-G. and Cai, Y. Triterpenes from the fungus *Poria cocos* and their inhibitory activity on nitric oxide production in mouse macrophages *via* blockade of activating protein-1 pathway. *Chem. Biodivers.* **8(11)**, 2135-2143 (2011).
4. Nukaya, H., Yamashiro, H., Fukazawa, H., *et al.* Isolation of inhibitors of TPA-induce mouse ear edema from Hoelen *Poria cocos*. *Chem. Pharm. Bull. (Tokyo)* **44(4)**, 847-849 (1996).

WARNING

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

SAFETY 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.

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