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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

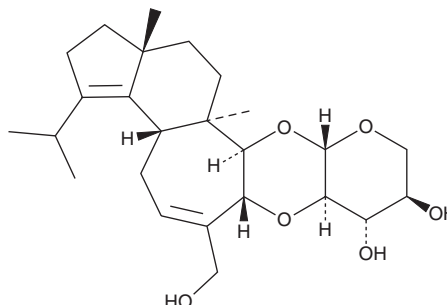


Erinacine C

Item No. 40079

CAS Registry No.: 156101-09-6
Formal Name: 1,2-O-[(3aR,5aR,6R,7R,10aR)-2,3,3a,4,5,5a,6,7,10,10a-decahydro-8-(hydroxymethyl)-3a,5a-dimethyl-1-(1-methylethyl)cyclohept[e]indene-6,7-diyl]-β-D-

Synonym: Erinacin C
MF: C₂₅H₃₈O₆
FW: 434.6
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Synthetic



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

Laboratory Procedures

Erinacine C is supplied as a solid. A stock solution may be made by dissolving the erinacine C in the solvent of choice, which should be purged with an inert gas. Erinacine C is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

Erinacine C is a cyathane diterpenoid that has been found in *H. erinaceum* and has diverse biological activities.¹⁻⁴ It inhibits transcription of the genes encoding the bacteriocins mutacin IV, mutacin V, and mutacin VI, which are *S. mutans* virulence factors, in reporter assays using *S. mutans*.² Erinacine C (1 mM) increases the production of nerve growth factor (NGF) in mouse astroglial cells.¹ It inhibits LPS-induced nitric oxide (NO) production in BV-2 microglia (IC₅₀ = 29.22 μM).³ Erinacine C (2 mg/kg) reduces mild traumatic brain injury-induced motor deficits and neuronal cell death in rats.⁴

References

1. Kawagishi, H., Shimada, A., Shirai, R., et al. Erinacines A, B and C, strong stimulators of nerve growth factor (NGF)-synthesis from the mycelia of *Hericium erinaceum*. *Tetrahedron Lett.* **35**(10), 1569-1572 (1994).
2. Premnath, P., Reck, M., Wittstein, K., et al. Screening for inhibitors of mutacin synthesis in *Streptococcus mutans* using fluorescent reporter strains. *BMC Microbiol.* **18**(1), 24 (2018).
3. Wei, J., Li, J.-Y., Feng, X.-L., et al. Unprecedented neoverrucosane and cyathane diterpenoids with anti-neuroinflammatory activity from cultures of the culinary-medicinal mushroom *Hericium erinaceus*. *Molecules* **28**(17), 6380 (2023).
4. K.F., L., Hsieh, Y.Y., Tung, S.Y., et al. The cerebral protective effect of novel erinacines from *Hericium erinaceus* Mycelium on in vivo mild traumatic brain injury animal model and primary mixed glial cells via Nrf2-dependent pathways. *Antioxidants (Basel)* **13**(3), 371 (2024).

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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