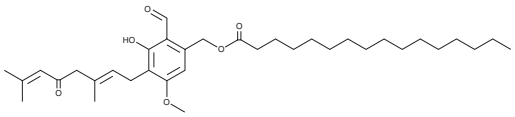
PRODUCT INFORMATION

Hericenone C

Item No. 46340

CAS Registry No.:	137592-03-1
Formal Name:	hexadecanoic acid, [4-[(2E)-3,7-dimethyl-5-oxo-2,6-octadien-1-yl]-2-formyl-3-hydroxy-5-methoxyphenyl] methyl ester
MF:	$C_{35}H_{54}O_6$
FW:	570.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Fungus/*Hericium erinaceus*



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

Laboratory Procedures

Hericenone C is supplied as a solid. A stock solution may be made by dissolving the hericenone C in the solvent of choice, which should be purged with an inert gas. Hericenone C is sparingly soluble (1-10 mg/ml) in acetonitrile and DMSO.

Description

Hericenone C is a polyketide synthase-derived monoterpenoid originally isolated from *H. erinaceum* that has diverse biological activities.[1-4] It acts as an antagonist of retinoic acid receptor-related orphan receptor α (RORα), reducing RORα-mediated reporter expression in RAW 264.7 cells.[3] Hericenone C reduces levels of the inflammatory marker CD11c in RAW 264.7 macrophages at 40 µM. It inhibits the accumulation of $CD11c^+$ cells at the formalin injection site and decreases formalin-induced paw licking in mice at 10 mg/kg.[4]

References

1. Iacovelli, R., Poon, F., and Haslinger, K. Identification and reconstitution of the first two enzymatic steps for the biosynthesis of bioactive meroterpenoids from *Hericium erinaceus* (lion's mane mushroom). *Molecules* 29(23), 5576 (2024).
2. Kawagishi, H., Ando, M., Sakamoto, H., *et al.* Hericenones C, D and E, stimulators of nerve growth factor (NGF)-synthesis, from the mushroom *Hericium erinaceum*. *Tetrahedron Lett.* **32(35),** 4561-4564 (1991).
3. Li, J., Hamamura, K., Yoshida, Y., *et al.* Hericenone C exhibits anti-nociceptive effects through RORα-mediated suppression of TLR4 transcription. *Front. Pharmacol.* **17**, 1703176 (2026).
4. Li, J., Hamamura, K., Yoshida, Y., *et al.* Hericenone C attenuates the second phase of formalin-induced nociceptive behavior by suppressing the accumulation of CD11c-positive cells in the paw epidermis via phosphorylated P65. *Biochem. Biophys. Res. Commun.* **720**, 150077 (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.

WARRANTY AND LIMITATION OF REMEDY
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