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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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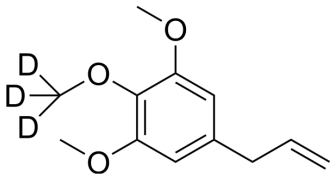
Elemicin-d_3

Cat. No.:	HY-N6807S
Molecular Formula:	$C_{12}H_{13}D_3O_3$
Molecular Weight:	211.27
Target:	Bacterial; Influenza Virus; Stearoyl-CoA Desaturase (SCD); Isotope-Labeled Compounds
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Elemicin-d_3 is deuterated labeled Pemafibrate (HY-17618). Pemafibrate is a highly selective PPARα agonist, with an EC_{50} of 1 nM.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. Elemicin (62.5, 125, 250, 500, 1000 μM) has an IC_{50} value of 910 μM in HepG2 cells[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Elemicin (500 mg/kg; orally gavage; every 24 h for 3 weeks) impairs liver function in mice. Elemicin inhibits liver SCD1, leading to a disequilibrium of lysophosphatidylcholines (LPCs)[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yi-Kun Wang, et al. Role of Metabolic Activation in Elemicin-Induced Cellular Toxicity. J Agric Food Chem. 2019 Jul 24;67(29):8243-8252.

[2]. Yang XN, et al. Metabolic Activation of Elemicin Leads to the Inhibition of Stearoyl-CoA Desaturase 1. Chem Res Toxicol. 2019 Sep 10.

[3]. Xiao-Nan Yang, et al. Metabolic Activation of Elemicin Leads to the Inhibition of Stearoyl-CoA Desaturase 1. Chem Res Toxicol. 2019 Oct 21;32(10):1965-1976.

[4]. Ayodeji Oluwabunmi Oriola, et al. Essential Oils and Their Compounds as Potential Anti-Influenza Agents. Molecules. 2022 Nov 12;27(22):7797.

[5]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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