



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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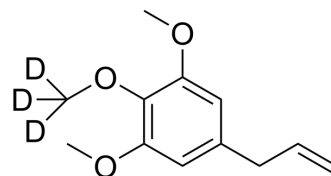
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## Elemicin-d<sub>3</sub>

<b>Cat. No.:</b>	HY-N6807S
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>13</sub> D <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	211.27
<b>Target:</b>	Bacterial; Influenza Virus; Stearoyl-CoA Desaturase (SCD); Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Elemicin-d <sub>3</sub> is deuterated labeled Pemafibrate (HY-17618). Pemafibrate is a highly selective PPAR $\alpha$ agonist, with an EC <sub>50</sub> of 1 nM.
<b>In Vitro</b>	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 <sup>[1]</sup> . Elemicin (62.5, 125, 250, 500, 1000 $\mu$ M) has an IC <sub>50</sub> value of 910 $\mu$ M in HepG2 cells <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	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) <sup>[4]</sup> . 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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