



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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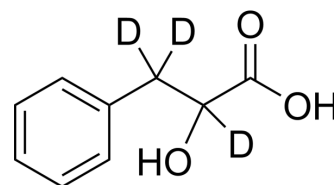
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## DL-3-Phenyllactic acid-d<sub>3</sub>

<b>Cat. No.:</b>	HY-W017162S
<b>CAS No.:</b>	490034-49-6
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>7</sub> D <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	169.19
<b>Target:</b>	Bacterial; Endogenous Metabolite; 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>	DL-3-Phenyllactic acid-d <sub>3</sub> is a deuterated labeled DL-3-Phenyllactic acid <sup>[1]</sup> . DL-3-Phenyllactic acid is a broad-spectrum antimicrobial compound.
<b>In Vitro</b>	<p>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>.</p> <p>DL-3-Phenyllactic acid (3-Phenyllactic acid, PLA), which is an organic acid widely existing in honey and lactic acid bacteria fermented food, can be produced by many microorganisms, especially lactic acid bacteria. DL-3-Phenyllactic acid is proved as an ideal antimicrobial compound with broad and effective antimicrobial activity against both bacteria and fungi. In addition, DL-3-Phenyllactic acid can be used as feed additives to replace antibiotics in livestock feeds<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Mu W, et al. Recent research on 3-phenyllactic acid, a broad-spectrum antimicrobial compound. *Appl Microbiol Biotechnol.* 2012 Sep;95(5):1155-63.
- [2]. 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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