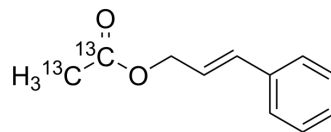


## Cinnamyl acetate-<sup>13</sup>C<sub>2</sub>

<b>Cat. No.:</b>	HY-N7125S
<b>CAS No.:</b>	1083053-34-2
<b>Molecular Formula:</b>	C <sub>9</sub> <sup>13</sup> C <sub>2</sub> H <sub>12</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	178.2
<b>Target:</b>	Bacterial; Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Cinnamyl acetate- <sup>13</sup> C <sub>2</sub> is <sup>13</sup> C labeled Nerolidol (HY-N1944). Nerolidol has multiple natural membrane activities, possesses anti-cancer, anti-inflammatory, antibacterial and anti-insect activity. Nerolidol Suppresses parasitic activity, suppresses bloodsucking diseases, bloodworm diseases, and other diseases. Nerolidol can protect the cells from lipid and protein properties, damage to DNA, and protect the cells from damage <sup>[1][2][3]</sup> .
<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> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Dong H, et al. Whole-Cell Biocatalytic Synthesis of Cinnamyl Acetate with a Novel Esterase from the DNA Library of *Acinetobacter hemolyticus*. *J Agric Food Chem*. 2017 Mar 15;65(10):2120-2128.
- [2]. Nieto-Bobadilla MS, et al. Controlled delivery of a new broad spectrum antibacterial agent against colitis: In vitro and in vivo performance. *Eur J Pharm Biopharm*. 2015 Oct;96:152-61.
- [3]. 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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