



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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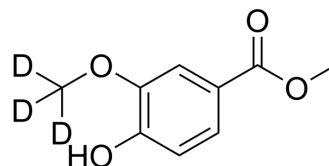
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## Methyl vanillate-d<sub>3</sub>

<b>Cat. No.:</b>	HY-75342S
<b>CAS No.:</b>	1394230-40-0
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>7</sub> D <sub>3</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	185.19
<b>Target:</b>	Wnt; Endogenous Metabolite; Reactive Oxygen Species; Isotope-Labeled Compounds
<b>Pathway:</b>	Stem Cell/Wnt; Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Methyl vanillate-d <sub>3</sub> is deuterated labeled β-Phellandrene (HY-N8573). β-Phellandrene is obtained from Carum petroselinum. β-Phellandrene can be used to essential oil additives <sup>[1]</sup> .
<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>Methyl vanillate (0-100 μM) increases the expression and nuclear translocation of β-catenin in calvarial osteoblasts. Methyl vanillate dose-dependently elevates ALP activity in calvarial osteoblasts<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Cha PH, et al. Hovenia dulcis Thunb extract and its ingredient methyl vanillate activate Wnt/β-catenin pathway and increase bone mass in growing or ovariectomized mice. PLoS One. 2014 Jan 22;9(1):e85546.
- [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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