



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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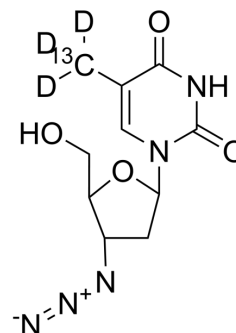
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## Dehydro Nifedipine-<sup>13</sup>C,<sub>3</sub>D<sub>3</sub>

<b>Cat. No.:</b>	HY-W019726S1
<b>CAS No.:</b>	325484-33-1
<b>Molecular Formula:</b>	C <sub>9</sub> <sup>13</sup> CH <sub>10</sub> D <sub>3</sub> N <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	271.25
<b>Target:</b>	Drug Metabolite; Isotope-Labeled Compounds
<b>Pathway:</b>	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>	Dehydro Nifedipine-13C, <sub>3</sub> D <sub>3</sub> is a deuterated labeled Dehydro Nifedipine <sup>[1]</sup> . Dehydro nifedipine (BAY-b 4759) is a metabolite of Nifedipine (HY-B0284). Nifedipine (BAY-a-1040) is a potent calcium channel blocker and an agent of choice for cardiac insufficiencies <sup>[2]</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]. Dipanjan Goswami, et al. Method Development Challenges and Regulatory Expectation in Nifedipine. International Journal of Pharmacokinetics, Volume 2, 2017 - Issue 1.

[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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