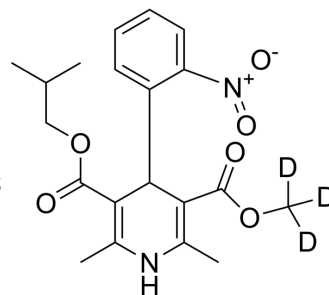


## Nisoldipine-d<sub>3</sub>

<b>Cat. No.:</b>	HY-17402S3
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>21</sub> D <sub>3</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	391.43
<b>Target:</b>	Calcium Channel; Reactive Oxygen Species; Isotope-Labeled Compounds
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Nisoldipine-d <sub>3</sub> is deuterated labeled Nisoldipine (HY-17402). Nisoldipine (BAY-k 5552; Sular) is a highly efficient and specific L-type Cav1.2 channel blocker with an IC <sub>50</sub> of 10 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> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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- [3]. D.J. Duncker, J.M. Hartog, P.G. Hugenholtz, et al. The effects of nisoldipine (Bay K 5552) on cardiovascular performance and regional blood flow in pentobarbital - anaesthetized pigs with or without β-adrenoceptor blockade. *British Journal of Pharmacology.* 1986,88(1): 9-18
- [4]. Jan W. De Jong, Tom Huizer, Jan G.P. Tijssen. Energy conservation by nisoldipine in ischaemic heart. *British Journal of Pharmacology.* 1984, 83(4): 943-949
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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