



# 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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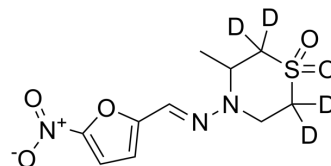
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## Nifurtimox-d<sub>4</sub>

Cat. No.:	HY-W040073S
Molecular Formula:	C <sub>10</sub> H <sub>9</sub> D <sub>4</sub> N <sub>3</sub> O <sub>5</sub> S
Molecular Weight:	291.32
Target:	Parasite; Lactate Dehydrogenase; Isotope-Labeled Compounds
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Nifurtimox-d <sub>4</sub> is deuterium labeled Nifurtimox. Nifurtimox, an antiprotozoal agent, which is generally used for the treatment of infections with <i>Trypanosoma cruzi</i> , has been used in the therapy of neuroblastoma. Nifurtimox affects enzyme activity of lactate dehydrogenase (LDH).
<b>IC<sub>50</sub> &amp; Target</b>	Trypanosoma
<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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Cabanillas Stanchi KM, et al. Nifurtimox reduces N-Myc expression and aerobic glycolysis in neuroblastoma. *Cancer Biol Ther.* 2015;16(9):1353-63.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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