



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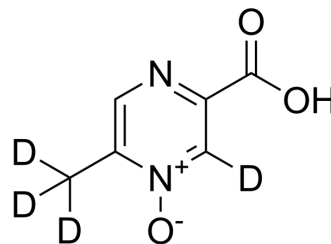
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## Acipimox-d<sub>4</sub>

<b>Cat. No.:</b>	HY-B0283S
<b>CAS No.:</b>	1246816-28-3
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>2</sub> D <sub>4</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	158.15
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Acipimox-d <sub>4</sub> is the deuterium labeled Acipimox. Acipimox (K-9321), a nicotinic acid analogue, is an antilipolytic compound. Acipimox acutely inhibits lipolysis and suppresses systemic levels of free fatty acids (FFAs) and improves insulin sensitivity <sup>[1]</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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Esben Thyssen Vestergaard, et al. Short-term acipimox treatment is associated with decreased cardiac parasympathetic modulation. *Br J Clin Pharmacol.* 2017 Dec; 83(12): 2671-2677.
- [3]. Y-L Wang-Fisher, et al. Acipimox stimulates leptin production from isolated rat adipocytes. *J Endocrinol.* 2002 Aug;174(2):267-72.
- [4]. B Åhrén. Reducing plasma free fatty acids by acipimox improves glucose tolerance in high-fat fed mice. *Acta Physiol Scand.* 2001 Feb;171(2):161-7.

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

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