



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

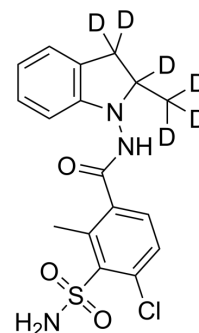
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## Indapamide-d<sub>6</sub>

<b>Cat. No.:</b>	HY-B0259S3
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>12</sub> D <sub>6</sub> ClN <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	385.9
<b>Target:</b>	Potassium Channel; Isotope-Labeled Compounds
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Indapamide-d <sub>6</sub> is a deuterated labeled Indapamide <sup>[1]</sup> . Indapamide is an orally active sulphonamide diuretic agent, that can reduce blood pressure by decreasing vascular reactivity and peripheral vascular resistance. Indapamide is also can reduce left ventricular hypertrophy <sup>[2][5]</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>Indapamide (0.1-500 mg/L; 20min) reduces total insulin secretory response to glucose infusions in isolated perfused rat pancreas<sup>[3]</sup>.</p> <p>Indapamide (1-100 μM) increases osteoblast proliferation and decreased bone resorption<sup>[4]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>Indapamide (1 mg/kg/d; gastric gavage for 8 weeks) lowers blood pressure in spontaneously hypertensive rats (SHRs)<sup>[5]</sup>.</p> <p>Indapamide (10 mg/kg/d) decreases pressor response to oxotremorine, noradrenaline, and tyramine in rats<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Chaffman, M, et, al. Indapamide. Drugs 28, 189–235 (1984).
- [2]. Furman BL, et, al. A further examination of the possible effects of indapamide on glucose tolerance and insulin secretion in the rat and mouse. J Pharm Pharmacol. 1981 Nov;33(11):735-7.
- [3]. Lalande A, et, al. Indapamide, a thiazide-like diuretic, decreases bone resorption in vitro. J Bone Miner Res. 2001 Feb;16(2):361-70.
- [4]. Ma F, et, al. Indapamide lowers blood pressure by increasing production of epoxyeicosatrienoic acids in the kidney. Mol Pharmacol. 2013 Aug;84(2):286-95.
- [5]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA