



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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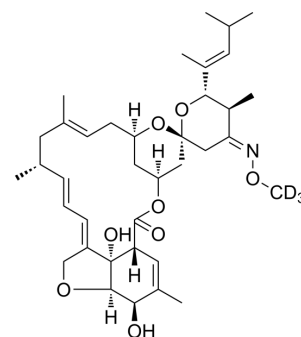
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Moxidectin-d₃

Cat. No.:	HY-B0777S
Molecular Formula:	C ₃₇ H ₅₀ D ₃ NO ₈
Molecular Weight:	642.84
Target:	Isotope-Labeled Compounds; BCRP; Parasite; Antibiotic; P-glycoprotein
Pathway:	Others; Membrane Transporter/Ion Channel; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Moxidectin-d₃ (CL-301423-d₃) is deuterium labeled Moxidectin. Moxidectin (CL301423) is an orally active macrolide (ML) anthelmintic for the prevention and control of heartworms and roundworms. Moxidectin is also a substrate of BCRP and P-glycoprotein (P-gp) in vivo, and is secreted into breast milk and effluxed from the host and parasite mediated by Bcrp1 and P-gp. This may be related to the presence of chemical residues in milk^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Moxidectin, From Wikipedia
- [3]. Kiki-Mvouaka S, et al. Role of P-glycoprotein in the disposition of macrocyclic lactones: A comparison between ivermectin, eprinomectin, and moxidectin in mice. *Drug Metab Dispos*. 2010 Apr;38(4):573-80.
- [4]. Perez M, et al. In vitro and in vivo interaction of moxidectin with BCRP/ABCG2. *Chem Biol Interact*. 2009 Jun 15;180(1):106-12.

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

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