



# 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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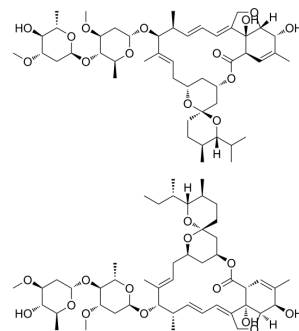
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## Ivermectin (Standard)

<b>Cat. No.:</b>	HY-15310R
<b>CAS No.:</b>	70288-86-7
<b>Molecular Formula:</b>	C <sub>48</sub> H <sub>74</sub> O <sub>14</sub>
<b>Molecular Weight:</b>	875.09
<b>Target:</b>	Dengue virus; Mitophagy; Autophagy; Bacterial; Parasite; Antibiotic; SARS-CoV; HIV; HSV; Flavivirus
<b>Pathway:</b>	Anti-infection; Autophagy
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ivermectin (Standard) is the analytical standard of Ivermectin. This product is intended for research and analytical applications. Ivermectin (MK-933) is a broad-spectrum anti-parasite agent. Ivermectin (MK-933) is a specific inhibitor of Imp  $\alpha/\beta$ 1-mediated nuclear import and has potent antiviral activity towards both HIV-1 and dengue virus. It is a positive allosteric effector of P2X<sub>4</sub> and the  $\alpha$ 7 neuronal nicotinic acetylcholine receptor (nAChRs). Ivermectin also inhibits bovine herpesvirus1 (BoHV-1) replication and inhibits BoHV-1 DNA polymerase nuclear import<sup>[1][2][3][4]</sup>. Ivermectin is a candidate therapeutic against SARS-CoV-2/COVID-19<sup>[5]</sup>.

### REFERENCES

- [1]. Khakh BS, et al. Allosteric control of gating and kinetics at P2X<sub>4</sub> receptor channels. *J Neurosci*. 1999 Sep 1;19(17):7289-99.
- [2]. Priel A, et al. Mechanism of ivermectin facilitation of human P2X<sub>4</sub> receptor channels. *J Gen Physiol*. 2004 Mar;123(3):281-93.
- [3]. Wagstaff KM, et al. Ivermectin is a specific inhibitor of importin  $\alpha/\beta$ -mediated nuclear import able to inhibit replication of HIV-1 and dengue virus. *Biochem J*. 2012 May 1;443(3):851-6.
- [4]. Raza S, et al. Ivermectin Inhibits Bovine Herpesvirus 1 DNA Polymerase Nuclear Import and Interferes with Viral Replication. *Microorganisms*. 2020 Mar 13;8(3). pii: E409.
- [5]. Khan Sharun, et al. Ivermectin, a New Candidate Therapeutic Against SARS-CoV-2/COVID-19. *Ann Clin Microbiol Antimicrob*. 2020 May 30;19(1):23.

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

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