



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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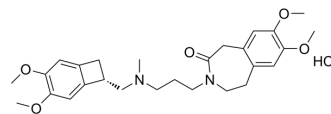
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## Ivabradine hydrochloride (Standard)

Cat. No.:	HY-B0162AR
CAS No.:	148849-67-6
Molecular Formula:	C <sub>27</sub> H <sub>37</sub> ClN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	505.05
Target:	HCN Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ivabradine (hydrochloride) (Standard) is the analytical standard of Ivabradine (hydrochloride). This product is intended for research and analytical applications. Ivabradine hydrochloride is a potent and orally active HCN (hyperpolarization-activated cyclic nucleotide-gated) channel blocker that inhibits the cardiac pacemaker current (I<sub>f</sub>). Ivabradine hydrochloride reduces dose-dependently heart rate without modification of blood pressure. Ivabradine hydrochloride shows anticonvulsant, anti-ischaemic and anti-anginal activity<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. Tardif JC, et al. Efficacy of ivabradine, a new selective I<sub>f</sub> inhibitor, compared with atenolol in patients with chronic stable angina. *Eur Heart J*. 2005 Dec;26(23):2529-36.
- [2]. Mulder P, et al. Heart rate slowing for myocardial dysfunction/heart failure. *Adv Cardiol*. 2006;43:97-105.
- [3]. Cavalcante TMB, et al. Ivabradine possesses anticonvulsant and neuroprotective action in mice. *Biomed Pharmacother*. 2019 Jan;109:2499-2512.
- [4]. Du XJ, et al. I<sub>f</sub> channel inhibitor ivabradine lowers heart rate in mice with enhanced sympathoadrenergic activities. *Br J Pharmacol*. 2004 May;142(1):107-12.

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

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