



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

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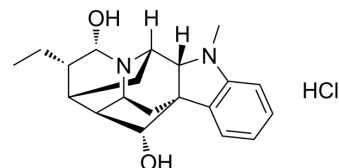
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## Ajmaline hydrochloride

Cat. No.:	HY-B1167A
CAS No.:	4410-48-4
Molecular Formula:	C <sub>20</sub> H <sub>27</sub> ClN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	362.89
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ajmaline hydrochloride is a Class Ia antiarrhythmic agent. It inhibits HERG potassium channels with IC<sub>50</sub>s of 1.0 μmol/l and 42.3 μmol/l in HEK cells and moth spider oocytes respectively. The inhibitory effect of Ajmaline hydrochloride is rapid, reversible, and positive frequency dependent. It acts primarily on the open state of the HERG channel and may also be combined with the inactivated state. The inhibitory effect of ajmaline hydrochloride is dependent on aromatic residues in the S6 domain, and the sensitivity is significantly reduced in the inactivation-deficient HERG S620T channel. It can also slightly affect the activation voltage of HERG channels. Ajmaline hydrochloride's inhibitory effect on HERG channels may contribute to both its potent antiarrhythmic effects and its potential proarrhythmic risk.

### REFERENCES

[1]. Class Ia anti-arrhythmic drug ajmaline blocks HERG potassium channels: mode of action

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

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