



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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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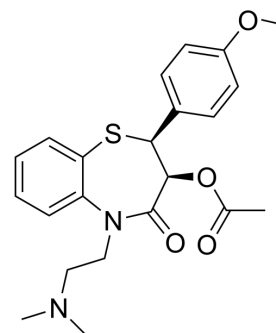
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## Diltiazem (Standard)

Cat. No.:	HY-B0632R
CAS No.:	42399-41-7
Molecular Formula:	C <sub>22</sub> H <sub>26</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	414.52
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Diltiazem (Standard) is the analytical standard of Diltiazem. This product is intended for research and analytical applications. Diltiazem is an orally active L-type Ca <sup>2+</sup> channel blocker. Diltiazem shows antihypertensive and antiarrhythmic effects. Diltiazem can be used for the research of cardiac arrhythmia, hypertension, and angina pectoris <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	L-type Ca <sup>2+</sup> channel <sup>[1]</sup>

### REFERENCES

- [1]. Yoshinari Niimi, et al. Diltiazem facilitates inactivation of single L-type calcium channels in guinea pig ventricular myocytes. *Jpn Heart J.* 2003 Nov;44(6):1005-14.
- [2]. S Lin Tang, et al. Structural Basis for Diltiazem Block of a Voltage-Gated Ca<sup>2+</sup> Channel. *Mol Pharmacol.* 2019 Oct; 96(4): 485-492.
- [3]. Anja Mieth, et al. L-type calcium channel inhibitor diltiazem prevents aneurysm formation by blood pressure-independent anti-inflammatory effects. *Hypertension.* 2013 Dec;62(6):1098-104.
- [4]. S. J. Downing, et al. Diltiazem pharmacokinetics in the rat and relationship between its serum concentration and uterine and cardiovascular effects. *Br J Pharmacol.* 1987 Aug; 91(4): 735-745.

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

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