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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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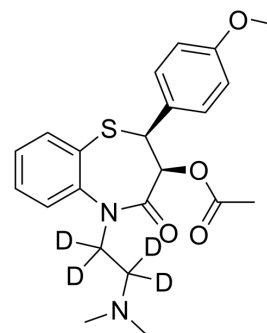
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Diltiazem-d₄

Cat. No.:	HY-B0632S2
CAS No.:	112259-41-3
Molecular Formula:	C ₂₂ H ₂₂ D ₄ N ₂ O ₄ S
Molecular Weight:	418.54
Target:	Isotope-Labeled Compounds; Calcium Channel
Pathway:	Others; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Diltiazem-d₄ is deuterium labeled Diltiazem. Diltiazem is an orally active L-type Ca²⁺ channel blocker. Diltiazem shows antihypertensive and antiarrhythmic effects. Diltiazem can be used for the research of cardiac arrhythmia, hypertension, and angina pectoris^{[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]. 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.
- [3]. S Lin Tang, et l. Structural Basis for Diltiazem Block of a Voltage-Gated Ca²⁺ Channel. *Mol Pharmacol*. 2019 Oct; 96(4): 485-492.
- [4]. 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.
- [5]. 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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