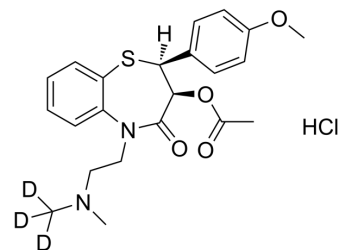


Diltiazem-d₃ hydrochloride

Cat. No.:	HY-14656S
CAS No.:	1217623-80-7
Molecular Formula:	C ₂₂ H ₂₄ D ₃ ClN ₂ O ₄ S
Molecular Weight:	454
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Diltiazem-d ₃ (hydrochloride) is the deuterium labeled Diltiazem hydrochloride. Diltiazem hydrochloride is a Ca ²⁺ influx inhibitor (slow channel blocker or calcium antagonist)[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [4]. Chiesi M, et al. Stereospecific action of diltiazem on the mitochondrial Na-Ca exchange system and on sarcolemmal Ca-channels. *Biochem Pharmacol.* 1987 Sep 1;36(17):2735-40.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA