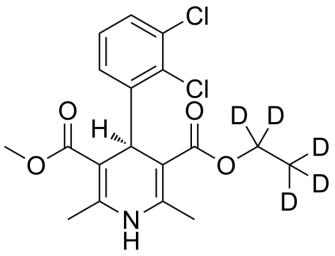
(R)-(-)-Felodipine-d_5

Cat. No.:	HY-132670S
CAS No.:	1217744-87-0
Molecular Formula:	$C_{18}H_{14}D_5Cl_2NO_4$
Molecular Weight:	389.28
Target:	Calcium Channel; Autophagy; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-(-)-Felodipine-d_5 is the deuterium labeled (R)-(-)-Felodipine. (R)-(-)-Felodipine is the S enantiomer of Felodipine. Felodipine, a dihydropyridine, is a potent, vasoselective calcium channel antagonist. Felodipine lowers blood pressure (BP) by selective action on vascular smooth muscle, especially in the resistance vessels. Felodipine, an anti-hypertensive agent, induces autophagy. Felodipine can cross the blood-brain barrier[1][2][3].
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

[1]. Johnson JD, et al. Calcium and calmodulin antagonists binding to calmodulin and relaxation of coronary segments. J Pharmacol Exp Ther. 1983;226(2):330-334.;Siddiqi FH, et al. Felodipine induces autophagy in mouse brains with pharmacokinetics amenable to r

[2]. Siddiqi FH, et al. Felodipine induces autophagy in mouse brains with pharmacokinetics amenable to repurposing. Nat Commun. 2019 Apr 18;10(1):1817.

[3]. Siddiqi FH, et al. Felodipine induces autophagy in mouse brains with pharmacokinetics amenable to repurposing. Nat Commun. 2019 Apr 18;10(1):1817.

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