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Zuschläge

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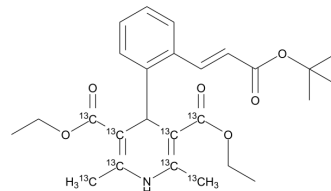
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Lacidipine-¹³C₈

Cat. No.:	HY-B0347S1
CAS No.:	1261432-01-2
Molecular Formula:	C ₁₈ ¹³ C ₈ H ₃₃ NO ₆
Molecular Weight:	463.48
Target:	Apoptosis; Caspase; Calcium Channel; Reactive Oxygen Species
Pathway:	Apoptosis; Membrane Transporter/Ion Channel; Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lacidipine- ¹³ C ₈ is the deuterium labeled Lacidipine[1]. Lacidipine is an orally active and highly selective L-type calcium channel blocker that acts on smooth muscle calcium channels, primarily dilates peripheral arteries, reduces peripheral resistance, and has long-lasting anti-hypertensive activity. Lacidipine protects HKCs from apoptosis induced by ATP depletion and recovery by modulating the caspase-3 pathway. Lacidipine can be used in studies of hypertension, atherosclerosis and acute kidney injury (AKI)[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Zhang A, et al. Lacidipine attenuates apoptosis via a caspase-3 dependent pathway in human kidney cells. Cell Physiol Biochem. 2013;32(4):1040-9.
- [3]. Cristofori P, et al. The calcium-channel blocker lacidipine reduces the development of atherosclerotic lesions in the apoE-deficient mouse. J Hypertens. 2000 Oct;18(10):1429-36.

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

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