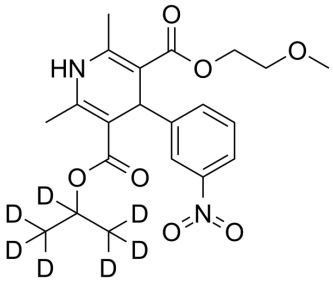
Nimodipine-d7

Cat. No.:	HY-B0265S
CAS No.:	1246815-36-0
Molecular Formula:	$C_{21}H_{19}D_7N_2O_7$
Molecular Weight:	425.48
Target:	Autophagy; Calcium Channel
Pathway:	Autophagy; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nimodipine-d7 is the deuterium labeled Nimodipine. Nimodipine (BAY-e 9736) is an orally active, well-tolerated and light-sensitive dihydropyridine calcium antagonist. Nimodipine can be used for the research of cerebrovascular disorders[1].
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;53(2):211-216.

[2]. Langley, M.S., et al. Nimodipine. Drugs 37, 669–699 (1989).

[3]. Marbacher S, et al. Prevention of delayed cerebral vasospasm by continuous intrathecal infusion of glyceroltrinitrate and nimodipine in the rabbit model in vivo. Intensive Care Med. 2008;34(5):932-938.

[4]. Honn KV, et al. Inhibition of tumor cell-platelet interactions and tumor metastasis by the calcium channel blocker, nimodipine. Clin Exp Metastasis. 1984;2(1):61-72.

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