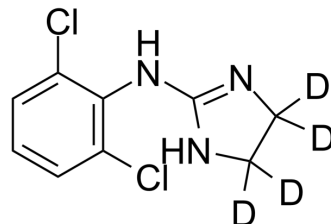


Clonidine-d4

Cat. No.:	HY-B0409S
CAS No.:	62497-68-1
Molecular Formula:	C ₉ H ₅ D ₄ Cl ₂ N ₃
Molecular Weight:	234.12
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Clonidine-d4 is the deuterium labeled Clonidine. Clonidine hydrochloride is an agonist of α2-adrenoceptor and potent antihypertensive agent ^{[1][2][3][4][5]} .
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]. Bugajski J, et al. The involvement of central alpha-adrenergic and histamine H2-receptors in the hypothermia induced by clonidine in the rat. *Neuropharmacology*. 1980 Jan;19(1):9-15.; Zhang YM, et al. Clonidine induces calcitonin gene-related peptide expres

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

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