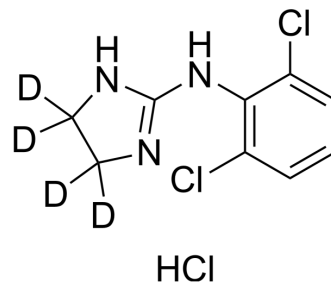


## Clonidine-d<sub>4</sub> hydrochloride

<b>Cat. No.:</b>	HY-12721S
<b>CAS No.:</b>	67151-02-4
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>6</sub> D <sub>4</sub> Cl <sub>3</sub> N <sub>3</sub>
<b>Molecular Weight:</b>	270.58
<b>Target:</b>	Adrenergic Receptor; Isotope-Labeled Compounds
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Clonidine-d <sub>4</sub> (hydrochloride) is the deuterium labeled Clonidine. Clonidine hydrochloride is an alpha 2-adrenergic agonist <sup>[1]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Alojado ME, et al. The effect of clonidine on the activity of neurons in the rat dorsal raphe nucleus in vitro. *Anesth Analg*. 1994 Aug;79(2):257-60.

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

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