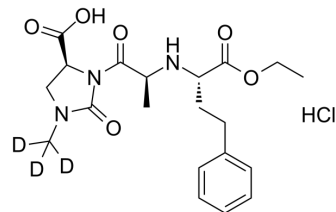


Imidapril-d3 hydrochloride

Cat. No.:	HY-B1451S
CAS No.:	1356017-30-5
Molecular Formula:	C ₂₀ H ₂₅ D ₃ ClN ₃ O ₆
Molecular Weight:	444.92
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Imidapril-d3 hydrochloride (TA-6366-d3) is the deuterium labeled Imidapril hydrochloride. Imidapril hydrochloride (TA-6366) is the hydrochloride salt of Imidapril, an angiotensin-converting enzyme (ACE) inhibitor with antihypertensive activity [1][2].
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]. Moriya T, et al. Enhancement of swallowing motor activity by the ACE inhibitor imidapril in an arterially perfused rat preparation. *Eur J Pharmacol.* 2019;861:172601.

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

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