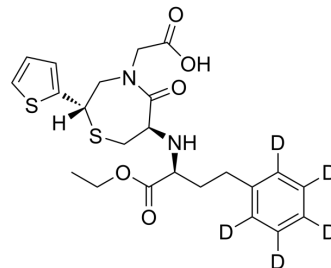


Temocapril-d₅

Cat. No.:	HY-100713S
CAS No.:	1356840-03-3
Molecular Formula:	C ₂₃ H ₂₃ D ₅ N ₂ O ₅ S ₂
Molecular Weight:	481.64
Target:	Angiotensin-converting Enzyme (ACE); Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Temocapril-d ₅ is the deuterium labeled Temocapril. Temocapril is an angiotensin-converting enzyme (ACE) inhibitor. Temocapril hydrochloride can be used for the research of hypertension, congestive heart failure, acute myocardial infarction, insulin resistance, and renal diseases[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]. Keisuke Ohnishi, et al. Angiotensin-Converting Enzyme Inhibitor Does Not Suppress Renal Angiotensin II Levels in Angiotensin I-Infused Rats. *J Pharmacol Sci*. 2013; 122(2): 103-108.
- [3]. Yuma Ishizaki, et al. Development of a Caco-2 Cell Line Carrying the Human Intestine-Type CES Expression Profile as a Promising Tool for Ester-Containing Drug Permeability Studies. *Biol Pharm Bull*. 2018;41(5):697-706.

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

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