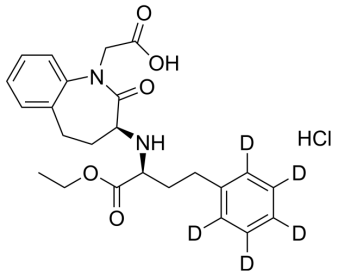
Benazepril-d_5 hydrochloride

Cat. No.:	HY-B0093AS
CAS No.:	1279026-26-4
Molecular Formula:	$C_{24}H_{24}D_5ClN_2O_5$
Molecular Weight:	465.98
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	Benazepril-d_5 (hydrochloride) is deuterium labeled Benazepril (hydrochloride).
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]. Hou FF, et al. Efficacy and safety of benazepril for advanced chronic renal insufficiency. N Engl J Med. 2006 Jan 12;354(2):131-40.

[3]. Huang XM, et al. Effects of chronotherapy of benazepril on the diurnal profile of RAAS and clock genes in the kidney of 5/6 nephrectomy rats. J Huazhong Univ Sci Technolog Med Sci. 2013 Jun;33(3):368-74.

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