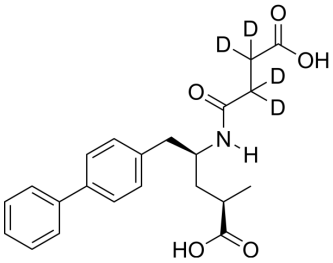
Sacubitrilat-d_4

Cat. No.:	HY-17620S
Molecular Formula:	$C_{22}H_{21}D_4NO_5$
Molecular Weight:	387.46
Target:	Neprilysin; 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	Sacubitrilat-d_4 is the deuterium labeled Sacubitrilat. Sacubitrilat (Desethyl Sacubitril) is an active neprilysin (NEP) inhibitor[1].
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]. Schiering N, et al. Structure of neprilysin in complex with the active metabolite of sacubitril. Sci Rep. 2016 Jun 15;6:27909.

[3]. Langenickel TH, et al. Single therapeutic and supratherapeutic doses of sacubitril/valsartan (LCZ696) do not affect cardiac repolarization. Eur J Clin Pharmacol. 2016 Aug;72(8):917-24.

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