Sacubitril-$^{13}C_4$

Cat. No.: HY-15407S3

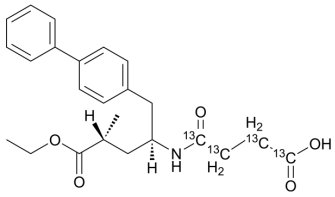
Molecular Formula: $C_{20}{}^{13}C_4H_{29}NO_5$

Molecular Weight: 415.46

Target: Isotope-Labeled Compounds; Neprilysin

Pathway: Others; Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description Sacubitril-13C4 (AHU-377-13C4) is a 13C-labeled version of Sacubitril (HY-15407). Sacubitril is an orally active inhibitor of neprilysin NEP (IC_{50}=5 nM). Sacubitril is used in research on heart failure, hypertension and COVID-19[1][2][3][4][5].

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Hegde, L.G., et al. Comparative efficacy of AHU-377, a potent neprilysin inhibitor, in two rat models of volume-dependent hypertension. BMC Pharmacol 11, P33 (2011).

[3]. Ksander GM, et al. Dicarboxylic acid dipeptide neutral endopeptidase inhibitors. J Med Chem. 1995 May 12;38(10):1689-700.

[4]. Voors AA, et al. The potential role of valsartan + AHU377 (LCZ696) in the treatment of heart failure. Expert Opin Investig Drugs. 2013 Aug;22(8):1041-7.

[5]. von Lueder TG, et al. Angiotensin receptor neprilysin inhibitor LCZ696 attenuates cardiac remodeling and dysfunction after myocardial infarction by reducing cardiac fibrosis and hypertrophy. Circ Heart Fail. 2015 Jan;8(1):71-8.

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