
Product Data Sheet

Product Name: Sacubitril-13C4 hemicalcium salt

Cat. No.: GC63732

Chemical Properties

Cas. No.

Formula $C_{20}^{13}C_4H_{28}Ca_{0.5}NO_5$

M.Wt

434.49

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Sacubitril-13C4 (AHU-377-13C4) hemicalcium salt is a 13C-labeled and deuterium labeled Sacubitril hemicalcium salt. Sacubitril (AHU-377) hemicalcium salt is a potent NEP inhibitor with an IC50 of 5 nM. Sacubitril hemicalcium salt is a component of the heart failure medicine LCZ696[1].

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Ksander GM, et al. Dicarboxylic acid dipeptide neutral endopeptidase inhibitors. *J Med Chem.* 1995 May 12;38(10):1689-700.;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.;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.

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

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