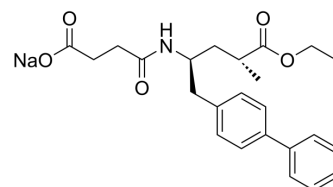


Sacubitril sodium

Cat. No.:	HY-15407B
CAS No.:	149690-05-1
Molecular Formula:	C ₂₄ H ₂₈ NNaO ₅
Molecular Weight:	433.47
Target:	Neprilysin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sacubitril sodium is a potent and orally active NEP (neprilysin) inhibitor, with an IC ₅₀ of 5 nM. Sacubitril sodium enhances the tone of the natriuretic peptide (NP) system and exerts significant antihypertensive effects. Sacubitril sodium is a component of the heart failure medicine LCZ696. Sacubitril sodium can be used for the research of heart failure, hypertension and COVID-19 ^{[1][2][3]} .
In Vitro	Sacubitril sodium increases neprilysin-degraded peptides, such as natriuretic peptides (NPs), peptide natriuretic atrial (ANP) and peptide natriuretic brain (BNP) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In normotensive rats, pretreatment with Sacubitril sodium (3, 10 and 30 mg/kg, PO.) augments ANP-evoked plasma cGMP levels by 2.4, 3.3 and 4.0 fold, respectively (4h AUC compared to vehicle) ^[1] . Sacubitril sodium (30 and 100 mg/kg, PO) produces a dose-dependent antihypertensive effect in Dahl-SS rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Theranostics. 2021; 11(18):8797-8812.

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REFERENCES

- [1]. 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).
- [2]. Vitiello A, et al. Sacubitril, valsartan and SARS-CoV-2. BMJ Evid Based Med. 2020 Jul 27;bmjebm-2020-111497.
- [3]. Chrysant SG. Pharmacokinetic, pharmacodynamic, and antihypertensive effects of the neprilysin inhibitor LCZ-696: sacubitril/valsartan. J Am Soc Hypertens. 2017 Jul;11(7):461-468.

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

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