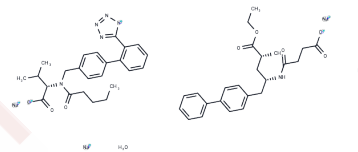


Sacubitril/Valsartan

Chemical Properties

CAS No. :	936623-90-4
Formula:	C ₄₈ H ₅₅ N ₆ O ₈ Na ₃ ·2.5H ₂ O
Molecular Weight:	957.99
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sacubitril/Valsartan (LCZ696) is an orally bioavailable, dual angiotensin II receptor and neprilysin inhibitor for the treatment of hypertension and heart failure.
Targets(IC50)	Apoptosis,RAAS,Neprilysin
In vitro	LCZ696 is a single molecule that is comprised of molecular moieties of valsartan, an ARB, and AHU377, a neprilysin inhibitor (1:1 ratio)[1].

Solubility Information

Solubility	Ethanol: 9 mg/mL (9.39 mM),Heating is recommended. H ₂ O: 250 mg/mL (260.96 mM),Sonication is recommended. DMSO: 45.45 mg/mL (47.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.09 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0439 mL	5.2193 mL	10.4385 mL
5 mM	0.2088 mL	1.0439 mL	2.0877 mL
10 mM	0.1044 mL	0.5219 mL	1.0439 mL
50 mM	0.0209 mL	0.1044 mL	0.2088 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Huo H, et al. Erastin Disrupts Mitochondrial Permeability Transition Pore (mPTP) and Induces Apoptotic Death of Colorectal Cancer Cells. PLoS One. 2016 May 12;11(5):e20154605.

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.

Bai HY, et al. Pre-treatment with LCZ696, an orally active angiotensin receptor neprilysin inhibitor, prevents ischemic brain damage. Eur J Pharmacol. 2015 Sep 5;762:293-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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