## SPH3127

Cat. No.:	HY-151111	
CAS No.:	1399849-02-5	
Molecular Formula:	$C_{22}H_{32}N_6O_4$	
Molecular Weight:	444.53	
Target:	Renin	
Pathway:	Metabolic Enzyme/Protease	N Ö
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (224.96 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.2496 mL	11.2478 mL	22.4957 mL	
		5 mM	0.4499 mL	2.2496 mL	4.4991 mL	
		10 mM	0.2250 mL	1.1248 mL	2.2496 mL	
	Please refer to the sol	ubility information to select the ap	propriate solvent.			
In Vivo	1. Add each solvent c Solubility: ≥ 5 mg/r	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (11.25 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (11.25 mM); Clear solution					
	<ol> <li>Add each solvent c</li> <li>Solubility: ≥ 5 mg/r</li> </ol>	one by one: 10% DMSO >> 90% cor mL (11.25 mM); Clear solution	n oil			

Product Data Sheet



Animal Model:	Cynomolgus monkeys pretreated with a low-sodium diet and furosemide $^{[1]}$
Dosage:	0, 1, 3, and 10 mg/kg
Administration:	Oral administration; 1, 3, and 10 mg/kg; once
Result:	Inhibited plasma renin activity with the IC <sub>50</sub> value of 0.46 nM, and showed hypotensive effect.
Animal Model:	Tsukuba hypertensive mice (THM) <sup>[1]</sup>
Dosage:	0, 0.3, 1, or 3 mg/kg
Dosage: Administration:	0, 0.3, 1, or 3 mg/kg Oral administration; 0, 0.3, 1, or 3 mg/kg; once

## REFERENCES

[1]. Daisuke lijima, et al. Discovery of SPH3127: A Novel, Highly Potent, and Orally Active Direct Renin Inhibitor. J Med Chem. 2022 Aug 8.

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