SBC-115076

Cat. No.:	HY-12402		
CAS No.:	489415-96-	5	
Molecular Formula:	$C_{_{31}}H_{_{33}}N_{_{3}}O_{_{5}}$		
Molecular Weight:	527.61		
Target:	Ser/Thr Pro	tease	
Pathway:	Metabolic E	inzyme/P	rotease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (189.53 mM) * "≥" means soluble, but saturation unknown.					
Preparing Stock Solu	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.8953 mL	9.4767 mL	18.9534 mL	
		5 mM	0.3791 mL	1.8953 mL	3.7907 mL	
		10 mM	0.1895 mL	0.9477 mL	1.8953 mL	
	Please refer to the sol	ubility information to select the a	ppropriate solvent.			
In Vivo	1. Add each solvent o Solubility: ≥ 2.5 mg	one by one: 10% DMSO >> 40% Pl g/mL (4.74 mM); Clear solution	EG300 >> 5% Tween-80) >> 45% saline		
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution					
	3. Add each solvent o Solubility: ≥ 2.5 mg	one by one: 10% DMSO >> 90% co g/mL (4.74 mM); Clear solution	orn oil			

BIOLOGICALMON	
Description	SBC-115076 is a potent proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor. PCSK9 is a proprotein convertase, which plays a crucial role in LDL receptor metabolism ^{[1][2]} .
In Vivo	SBC-115076 (4 mg/kg; s.c.; daily for 3 weeks) reduces obesity and dyslipidemia, as well as improves insulin sensitivity in HFE fed rats ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet





Animal Model:	Female Wistar rats (high-fat diet (HFD)- fed) ^[1]
Dosage:	4 mg/kg
Administration:	S.c.; daily for 3 weeks
Result:	Superior to atorvastatin in instigating weight loss, cholesterol reduction, and attenuation of mitochondrial oxidative stress in oxidative muscle fibers of obese female rats.

CUSTOMER VALIDATION

• Pharmaceutics. 2023 Sep 23, 15(10), 2377.

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REFERENCES

[1]. Chanisa Thonusin, et al. The comparative effects of high dose atorvastatin and proprotein convertase subtilisin/kexin type 9 inhibitor on the mitochondria of oxidative muscle fibers in obese-insulin resistant female rats. Toxicol Appl Pharmacol. 2019 Nov 1;382:114741.

[2]. Wiciński M, et al. PCSK9 signaling pathways and their potential importance in clinical practice. EPMA J. 2017;8(4):391-402. Published 2017 Aug 14.

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