## PCSK9-IN-13

Cat. No.:	HY-148758			
CAS No.:	2244129-23-3			
Molecular Formula:	C <sub>30</sub> H <sub>33</sub> N <sub>5</sub> O <sub>2</sub>			
Molecular Weight:	495.62			
Target:	Ser/Thr Protease			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

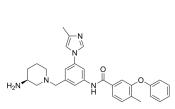
## SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.0177 mL	10.0884 mL	20.1767 mL		
		5 mM	0.4035 mL	2.0177 mL	4.0353 mL		
		10 mM	0.2018 mL	1.0088 mL	2.0177 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
/ivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.04 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.04 mM); Clear solution; Need ultrasonic						
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.04 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY				
Description	PCSK9-IN-13(compound 3f) is a potent PCSK9 inhibitor, which can antagonize low-density lipoprotein (LDL) receptor binding by binding to PCSK9, with an IC <sub>50</sub> of 537 nM <sup>[1]</sup> .			
In Vitro	PCSK9-IN-13(compound 3f) (0.1 or 1 μM) restores LDL uptake in HepG2 hepatocytes in a dose-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	PCSK9-IN-13(compound 3f) (3.28 or 16.4 mg/kg/day, s.c., 14 days) in male C57BL/6 mice dose not show a reduction in total			

## Product Data Sheet





cholesterol at a dose of 3.28 mg/kg, however, a dose of 16.4 mg/kg shows a significant reduction of total cholesterol plasma levels by approximately 10%, and exhibits excellent bioavailability<sup>[1]</sup>.

The pharmacokinetic parameters of PCSK9-IN-13(compound 3f) in C57BL/6 mice

Parameter	SC	РО	IV(single)	IV(cassette)
Dose(mg/kg)	20	20	5	0.4
T <sub>max</sub> (h)	1	2	-	-
C <sub>max</sub> (ng/mL)	2207	52.6	-	-
CL(L/h/kg)	-	-	1.09	0.3
V <sub>SS</sub> (L/kg)	-	-	3.87	9.13
T <sub>1/2</sub> (h)	5.47	-	9.86	25.7
$AUC_{\infty}(h*ng/mL)$	16811	-	4605	1472
$MRT_\infty(h)$	-	-	3.56	34.9
F(%)	91.3	0.527	-	-

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

## REFERENCES

[1]. Benny J. Evison, et al. A small molecule inhibitor of PCSK9 that antagonizes LDL receptor binding via interaction with a cryptic PCSK9 binding groove. Bioorganic & Medicinal Chemistry

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

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