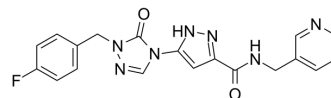


SCD1 inhibitor-3

Cat. No.:	HY-139077		
CAS No.:	1282606-48-7		
Molecular Formula:	C ₁₉ H ₁₆ FN ₇ O ₂		
Molecular Weight:	393.37		
Target:	Stearoyl-CoA Desaturase (SCD)		
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

In Vitro

DMSO : ≥ 125 mg/mL (317.77 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5421 mL	12.7107 mL	25.4214 mL
	5 mM	0.5084 mL	2.5421 mL	5.0843 mL
	10 mM	0.2542 mL	1.2711 mL	2.5421 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SCD1 inhibitor-3 is a safe, potent and orally active SCD1 inhibitor. SCD1 inhibitor-3 can be used for the research of metabolic diseases such as obesity, type II diabetes and dyslipidemia, as well as skin diseases, acne and cancer^[1].

IC₅₀ & Target

SCD1^[1]

In Vivo

SCD1 inhibitor-3 (compound 17a) (5 mg/kg; p.o.; 4 hours) reduces the plasma C16:1/C16:0 triglycerides desaturation index by 54 %^[1].
 SCD1 inhibitor-3 (2~10 mg/kg; p.o.; 4 hours) makes a dose-responsive reduction of plasma triglycerides desaturation index^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Lewis rats^[1]

Dosage:	5 mg/kg
Administration:	P.o.; 4 hours
Result:	Reduced the plasma C16:1/C16:0 triglycerides desaturation index by 54 %.
Animal Model:	Lewis rats ^[1]
Dosage:	2~10 mg/kg
Administration:	P.o.; 4 hours
Result:	A dose-responsive reduction of plasma triglycerides desaturation index.

REFERENCES

[1]. Sun S, et al. Discovery of triazolone derivatives as novel, potent stearoyl-CoA desaturase-1 (SCD1) inhibitors. *Bioorg Med Chem*. 2015;23(3):455-465.

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

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