## SCD1 inhibitor-4

MedChemExpress

Cat. No.:	HY-141525		
CAS No.:	1295541-87	-5	
Molecular Formula:	C <sub>17</sub> H <sub>16</sub> F <sub>3</sub> N <sub>5</sub> O		
Molecular Weight:	363.34		
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

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### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.7522 mL	13.7612 mL	27.5224 mL		
		5 mM	0.5504 mL	2.7522 mL	5.5045 mL		
		10 mM	0.2752 mL	1.3761 mL	2.7522 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
ı Vivo		one by one: 10% DMSO >> 40% PEC g/mL (6.88 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			
		Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.88 mM); Clear solution					
	t one by one: 10% DMSO >> 90% corn oil ng/mL (6.88 mM); Clear solution						

BIOLOGICAL ACTIVITY				
Description	SCD1 inhibitor-4 is a potent, orally active stearoylCoA desaturase-1 (SCD1) inhibitor. SCD1 inhibitor-4 can be used for the research of diabetes <sup>[1]</sup> .			
IC <sub>50</sub> & Target	SCD1 <sup>[1]</sup>			
In Vivo	SCD1 inhibitor-4 (1~30 mg/kg) shows a dose-dependent decrease in desaturation index with a 55 % reduction at 1 mg/kg and 85% reduction at the 10 and 30 mg/kg doses <sup>[1]</sup> .			

# Product Data Sheet

N-N NH

√N<sup>−</sup> N<sup>−</sup> FFF

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

### REFERENCES

[1]. Atkinson KA, et al. N-benzylimidazole carboxamides as potent, orally active stearoylCoA desaturase-1 inhibitors. Bioorg Med Chem Lett. 2011;21(6):1621-1625.

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

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