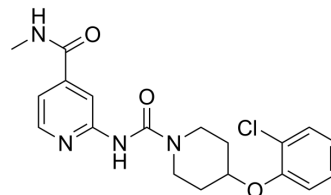


## SSI-4

Cat. No.:	HY-155033		
CAS No.:	1875084-68-6		
Molecular Formula:	C <sub>19</sub> H <sub>21</sub> ClN <sub>4</sub> O <sub>3</sub>		
Molecular Weight:	388.85		
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 : 100 mg/mL (257.17 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5717 mL	12.8584 mL	25.7169 mL
		5 mM	0.5143 mL	2.5717 mL	5.1434 mL
		10 mM	0.2572 mL	1.2858 mL	2.5717 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.43 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 (6.43 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.43 mM); Clear solution; Need ultrasonic				

## BIOLOGICAL ACTIVITY

Description	SSI-4 is an inhibitor of Stearoyl CoA desaturase 1 (SCD1), which can be modified with <sup>11</sup> C, used as a ligand to in vivo small animal PET/CT imaging of SCD1 <sup>[1]</sup> .
IC <sub>50</sub> & Target	SCD1 <sup>[1]</sup>

## REFERENCES

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

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