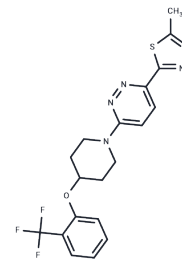


MF-438

## Chemical Properties

CAS No. : 921605-87-0  
 Formula: C<sub>19</sub>H<sub>18</sub>F<sub>3</sub>N<sub>5</sub>O<sub>5</sub>  
 Molecular Weight: 421.44  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MF-438 is an effective and orally bioavailable stearyl-CoA desaturase 1 (SCD1) inhibitor (EC <sub>50</sub> : 2.3 nM for rSCD1).
Targets(IC <sub>50</sub> )	Dehydrogenase, Stearyl-CoA Desaturase (SCD)

## Solubility Information

Solubility	DMSO: 45.4 mg/mL (107.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.37 mM), Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.55 mg/mL (10.8 mM), Solution. 10% DMSO+90% Saline: < 4.55 mg/mL (10.8 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3728 mL	11.8641 mL	23.7282 mL
5 mM	0.4746 mL	2.3728 mL	4.7456 mL
10 mM	0.2373 mL	1.1864 mL	2.3728 mL
50 mM	0.0475 mL	0.2373 mL	0.4746 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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