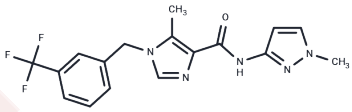
Data Sheet (Cat.No.T10525)

TargetMol

SCD1 inhibitor-4

Chemical Properties



CAS No. : 1295541-87-5

Formula: C17H16F3N5O

Molecular Weight: 363.34

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	SCD1 inhibitor-4 is stearoylCoA desaturase-1 (SCD1) inhibitor. SCD1 inhibitor-4 can be used for the research of diabetes.
Targets(IC50)	Dehydrogenase,Stearoyl-CoA Desaturase (SCD)
In vivo	SCD1 inhibitor-4 (1~30 mg/kg) demonstrates a dose-dependent decrease in the desaturation index, with a 55% reduction at 1 mg/kg and an 85% reduction at 10 and 30 mg/kg doses[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (247.7 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: 3.3 mg/mL (9.08 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.055 mL	0.2752 mL	0.5504 mL

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.

Reference

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