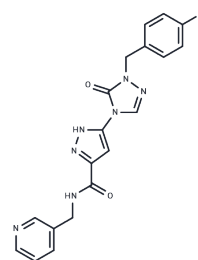


SCD1 inhibitor-3

Chemical Properties

CAS No. :	1282606-48-7
Formula:	C19H16FN7O2
Molecular Weight:	393.37
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-3 (ML-270) is a highly effective and orally available compound that inhibits SCD1 with remarkable safety. SCD1 inhibitor-3 demonstrates strong potential for research in metabolic diseases, including obesity, type II diabetes, and dyslipidemia, as well as various skin conditions like acne and cancer.
Targets(IC50)	Dehydrogenase, Stearoyl-CoA Desaturase (SCD)
In vivo	SCD1 inhibitor-3 (compound 17a), administered orally at a dosage of 5 mg/kg for 4 hours, effectively decreases the plasma C16:1/C16:0 triglycerides desaturation index by 54% in Lewis rats [1]. Furthermore, a dose-responsive reduction in the plasma triglycerides desaturation index is observed when the dosage ranges from 2 to 10 mg/kg, under the same conditions, indicating a dose-dependent efficacy [1].

Solubility Information

Solubility	DMSO: 35 mg/mL (88.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0508 mL	0.2542 mL	0.5084 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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