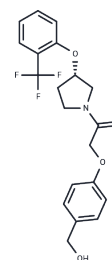


SCD1-IN-1

Chemical Properties

CAS No. :	1111078-63-7
Formula:	C ₂₀ H ₂₀ F ₃ N ₂ O ₄
Molecular Weight:	395.37
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-IN-1, a potent inhibitor of SCD1 (IC ₅₀ : 5.8 nM), is valuable in dermatologic research [1].
Targets(IC ₅₀)	Others, Stearoyl-CoA Desaturase (SCD)
In vitro	SCD1-IN-1 (compound I, 6 days) effectively inhibits SCD1 enzyme activity in intact human cells, with an IC ₅₀ of 6.8 nM [1].
In vivo	SCD1-IN-1 (compound I, 1.5% w/v, 25 µL), applied to the ventral surfaces of both ears of the hamster ear model [1] at a dosage of 1.5% in a vehicle of propylene glycol/transcutanol/ethanol (20/20/60, w/v, 25 µL), twice daily for two weeks, significantly reduces cholesterol ester (CE) and wax ester (WE) production by 62% and 82%, respectively, indicating its effectiveness in modulating sebum production and sebaceous gland size in this model.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5293 mL	12.6464 mL	25.2928 mL
5 mM	0.5059 mL	2.5293 mL	5.0586 mL
10 mM	0.2529 mL	1.2646 mL	2.5293 mL
50 mM	0.0506 mL	0.2529 mL	0.5059 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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