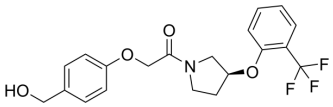
SCD1-IN-1

Cat. No.:	HY-150125
CAS No.:	1111078-63-7
Molecular Formula:	$C_{20}H_{20}F_3NO_4$
Molecular Weight:	395.37
Target:	Stearoyl-CoA Desaturase (SCD)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SCD1-IN-1 is a SCD1 inhibitor (IC_{50}: 5.8 nM). SCD1-IN-1 can be used in the research of dermatologic condition[1].
IC_{50} & Target	SCD1[1].
In Vitro	SCD1-IN-1 (compound I, 6 days) inhibits the SCD1 enzyme in intact human cells, with an IC_{50} value of 6.8 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SCD1-IN-1 (compound I, 1.5% w/v, 25 μL, applied to surfaces of ears) reduces in cholesterol ester (CE) and wax ester (WE) production in hamster ear model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Hamster ear model[1]
Dosage:	1.5% in a vehicle of propylene glycol/transcutanol/ethanol 20/20/60, w/v, 25 μL.
Administration:	Applied to ~3 cm^2 of the ventral surfaces of both the right and left ears, twice daily for 2 weeks.
Result:	Resulted in a 62% reduction in CE and an 82% reduction in WE, a mechanism biomarker for sebum production in the hamster model, and a reduction in sebaceous gland size.

REFERENCES

[1]. Li Jin, et al. Phenoxy-pyrrolidine derivative and its use and compositions Patent. WO2009019566.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA