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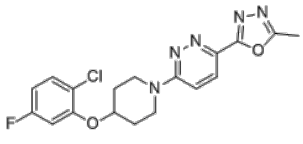
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CAY10566
Cat. No.	:	PC-20383
CAS No.	:	944808-88-2
Molecular Formula	:	$C_{18}H_{17}ClFN_5O_2$
Molecular Weight	:	389.82
Target	:	Stearoyl-CoA Desaturase (SCD)
Solubility	:	10 mM in DMSO



Biological Activity

CAY10566 is a potent, selective and orally bioavailable **stearoyl-CoA desaturase 1** (SCD1) inhibitor with IC50 of 4.5 and 26 nM for mouse and human SCD1, respectively.
CAY10566 shows minimal against 75 different receptors, transporters, and ion channels in Cerep HTP screen.
CAY10566 showed a dose-dependent inhibition of SCD1-mediated conversion of saturated LCFA-CoAs to monounsaturated LCFA-CoAs in HepG2 cells (IC50, 7.9 nM as measured by C17:1/C17:0, or 6.8 nM as measured by [13C]-C16:1/[13C]-C16:0).
CAY10566 induced ATF4 mRNA, phosphorylated ATF4 protein, and total ATF4 protein in vascular smooth muscle cells (VSMC).
CAY10566 decreases CHIKV genome replication.

References

Liu G, et al. ***J Med Chem.*** 2007 Jun 28;50(13):3086-100.

Masuda M, et al. ***J Lipid Res.*** 2012 Aug;53(8):1543-52.

Bakhache W, et al. ***Antiviral Res***. 2019 Dec;172:104642.

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