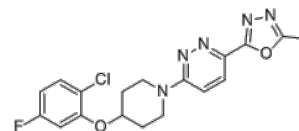


Product Name : CAY10566
Cat. No. : PC-20383
CAS No. : 944808-88-2
Molecular Formula : C₁₈H₁₇ClFN₅O₂
Molecular Weight : 389.82
Target : Stearoyl-CoA Desaturase (SCD)
Solubility : 10 mM in DMSO



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 activity 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

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

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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