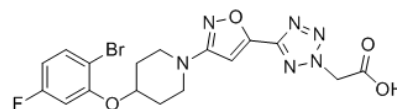


Product Name : MK-8245
Cat. No. : PC-43373
CAS No. : 1030612-90-8
Molecular Formula : C₁₇H₁₆BrFN₆O₄
Molecular Weight : 467.2491
Target : Stearoyl-CoA Desaturase (SCD)
Solubility : DMSO: 19 mg/mL



Biological Activity

MK-8245 is a potent, selective liver-targeted stearoyl-CoA desaturase (SCD) inhibitor with IC₅₀ of 3, 3 and 1 nM for rat, mouse and human SCD1 enzyme, respectively.

MK-8245 displays highly selective over the Δ-5 and Δ-6 desaturases (IC₅₀>100 μM); has IC₅₀ values of 68 nM and 1066 nM in Hum HepG2 and rat hepatocyte assays, demonstrates HepG2/hepatocyte ratio of 16:1.

MK-8245 exhibits preclinical antidiabetic and antidyslipidemic efficacy in vivo, demonstrates maximal liver SCD inhibition while sparing inhibition in the skin and eye tissues associated with adverse events.

References

Oballa RM, et al. *J Med Chem*. 2011 Jul 28;54(14):5082-96.

Landry F, et al. *J Lipid Res*. 2011 Aug;52(8):1494-9.

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

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