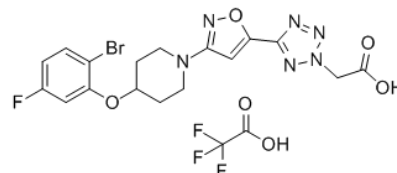


Product Name : MK-8245 trifluoroacetate
Cat. No. : PC-43378
CAS No. : 1415559-41-9
Molecular Formula : C₁₉H₁₇BrF₄N₆O₆
Molecular Weight : 581.2725
Target : Stearoyl-CoA Desaturase (SCD)
Solubility : 10 mM in DMSO



Biological Activity

MK-8245 trifluoroacetate 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; 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; 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.

Diabetes

Phase 1 Discontinued

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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