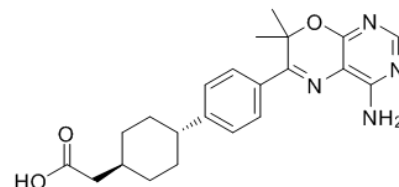


Product Name : T-863
Cat. No. : PC-45795
CAS No. : 701232-20-4
Molecular Formula : C₂₂H₂₆N₄O₃
Molecular Weight : 394.4668
Target : Diglyceride Acyltransferase (DGAT)
Solubility : 10 mM in DMSO



Biological Activity

A potent and selective, cell-permeable DGAT1 inhibitor that binds to the oleoyl-CoA binding pocket of DGAT1 with IC₅₀ of 17 nM in TLC assay; shows no inhibitory activity against hMGAT3, hDGAT2, and hMGAT2 at >10 μM; inhibits DGAT1-mediated triacylglycerol formation in HEK293-DGAT1 cells (IC₅₀=122 nM); causes weight loss, reduces serum and liver triglycerides, improves insulin sensitivity, and lowers serum cholesterol in diet-induced obese mice; orally bioavailable.

References

- Cao J, et al. J Biol Chem. 2011 Dec 2;286(48):41838-51.
Tuohetahuntala M, et al. J Lipid Res. 2016 Jul;57(7):1162-74.
Dow RL, et al. Bioorg Med Chem Lett. 2011 Oct 15;21(20):6122-5.

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

E-mail: tech@probechem.com