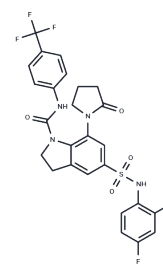


MGAT2-IN-2

Chemical Properties

CAS No. :	1710630-11-7
Formula:	C ₂₆ H ₂₁ F ₅ N ₄ O ₄ S
Molecular Weight:	580.53
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	MGAT2-IN-2 is a potent inhibitor of acyl CoA:monoacylglycerol acyltransferase 2 (MGAT2) with an IC ₅₀ of 3.4 nM.
Targets(IC ₅₀)	Others,Acyltransferase
In vitro	MGAT2-IN-2 exhibits potent MGAT2 inhibitory activity with an IC ₅₀ value of 3.4 nM and a ligand lipophilicity efficiency (LLE) value of 5.4[1].
In vivo	MGAT2-IN-2 elevates plasma TG levels during the oral fat tolerance test in C57BL/6j mice when administered orally at doses of 3, 10, and 30 mg/kg, 6 hours before the oil challenge.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7226 mL	8.6128 mL	17.2256 mL
5 mM	0.3445 mL	1.7226 mL	3.4451 mL
10 mM	0.1723 mL	0.8613 mL	1.7226 mL
50 mM	0.0345 mL	0.1723 mL	0.3445 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sato K, et al. Discovery of a Novel Series of N-Phenylindoline-5-sulfonamide Derivatives as Potent, Selective, and Orally Bioavailable Acyl CoA:Monoacylglycerol Acyltransferase-2 Inhibitors. J Med Chem. 2015 May 14;58(9):3892-909.

Sato K, et al. Optimization of a novel series of N-phenylindoline-5-sulfonamide-based acylCoA:monoacylglycerol acyltransferase-2 inhibitors: Mitigation of CYP3A4 time-dependent inhibition and phototoxic liabilities. Bioorg Med Chem. 2015 Aug 1;23(15):4544-60.

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