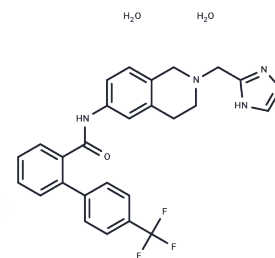


CP-346086 dihydrate

Chemical Properties

CAS No. : 1262769-98-1
 Formula: C₂₆H₂₆F₃N₅O₃
 Molecular Weight: 513.521
 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	CP-346086 dihydrate is a potent, orally active inhibitor of microsomal triglyceride transfer protein (MTP), with an IC ₅₀ of 2.0 nM for both human and rodent MTP, effectively lowering plasma cholesterol and triglyceride levels in vivo.
Targets(IC ₅₀)	Others,MTP,MTP
In vitro	CP-346086 demonstrates a dose-dependent inhibition of human microsomal triglyceride transfer protein (MTP)-mediated triglyceride transfer between vesicles across a concentration range of 0.1-1000 nM, achieving a half-maximum inhibitory concentration (IC ₅₀) of 2.0 nM. Additionally, when administered at concentrations for 24 hours, CP-346086 effectively inhibits the secretion of apolipoprotein B (apoB) and triglycerides from Hep-G2 cells, with an IC ₅₀ of 2.6 nM, without impacting the secretion of apoA-I or lipid synthesis.
In vivo	Administered orally once daily for two weeks at doses ranging from 1-100 mg/kg, CP-346086 significantly lowers plasma total, VLDL, and LDL cholesterol, along with triglycerides in B6CBAF1J mice. A single oral dose of 25 mg/kg of CP-346086 markedly inhibits Tyloxapol-induced triglyceride accumulation in fasted rats, achieving near-complete suppression. Additionally, acute plasma triglyceride levels in mice are reduced following a single oral administration of CP-346086 at doses from 0.1-10 mg/kg. Dose-dependent reductions in total, VLDL, LDL cholesterol, and triglycerides were observed, with reductions of 23%, 33%, 75%, and 62% respectively at a dose of 10 mg/kg/day.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9473 mL	9.7367 mL	19.4734 mL
5 mM	0.3895 mL	1.9473 mL	3.8947 mL
10 mM	0.1947 mL	0.9737 mL	1.9473 mL
50 mM	0.0389 mL	0.1947 mL	0.3895 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

Chandler CE, et, al. CP-346086: an MTP inhibitor that lowers plasma cholesterol and triglycerides in experimental animals and in humans. J Lipid Res. 2003 Oct;44(10):1887-901.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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