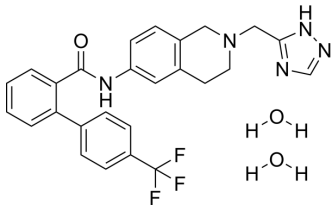
CP-346086 dihydrate

Cat. No.:	HY-113955A
CAS No.:	1262769-98-1
Molecular Formula:	$C_{26}H_{26}F_3N_5O_3$
Molecular Weight:	513.51
Target:	Microsomal Triglyceride Transfer Protein (MTP)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CP-346086 dihydrate is a potent and orally active microsomal triglyceride transfer protein (MTP) inhibitor, with an IC_{50} of 2.0 nM for human and rodent MTP. CP-346086 dihydrate can lower plasma cholesterol and triglycerides in vivo[1].
IC_{50} & Target	IC50: 2.0 nM (MTP)[1]
In Vitro	CP-346086 (0.1-1000 nM) dose-dependently inhibits human MTP-mediated triglyceride transfer between vesicles with an IC_{50} of 2.0 nM[1]. CP-346086 (24 h) inhibits apolipoprotein B (apoB) and triglyceride secretion (IC_{50}=2.6 nM) from Hep-G2 cells without affecting apoA-I secretion or lipid synthesis[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CP-346086 (1-100 mg/kg; oral gavage once daily for 2 weeks) reduces plasma total, VLDL, and LDL cholesterol and triglycerides in mice[1]. CP-346086 (25 mg/kg; a single p.o.) results in an almost complete inhibition of Tyloxapol-induced triglyceride accumulation in fasted rats[1]. CP-346086 (0.1-10 mg/kg; a single p.o.) reduces acute plasma triglyceride in mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	B6CBAF1J mice[1]
Dosage:	1, 2, 10, 20, 100 mg/kg
Administration:	Oral gavage once daily for 2 weeks
Result:	Lowered total, VLDL, and LDL cholesterol and triglycerides dose dependently with 23%, 33%, 75%, and 62% reductions at 10 mg/kg/day.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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