

TMP-153

Chemical Properties

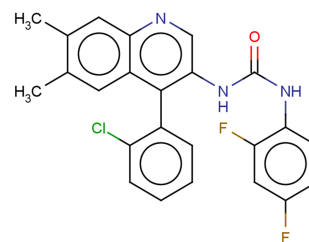
CAS No. : 128831-46-9

Formula: C₂₄H₁₈ClF₂N₃O

Molecular Weight: 437.87

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 years



Biological Description

Description	Acyl-CoA:cholesterol acyltransferase (ACAT) catalyses the esterification of excess cellular cholesterol with fatty acids and is important for intestinal cholesterol absorption, hepatic lipoprotein secretion, and cholesterol accumulation in vascular tissues. ACAT inhibitors improve plasma lipid profile and ameliorate proteinuria in nephrotic animals. TMP-153 is a quinolyl derivative that inhibits ACAT with IC ₅₀ values of 5-10 nM in various animals. At 0.5-1.5 mg/kg, TMP-153 dose-dependently reduces plasma total- and low density lipoprotein cholesterol without affecting high density lipoprotein cholesterol in hamsters. It inhibits cholesterol esterification both in human colonic adenocarcinoma L S180 cells and in human hepatoma HepG2 cells (IC ₅₀ s = 150 and 330 nM, respectively). When fed as a dietary supplement (ED ₅₀ = 0.81 mg/kg/day), TMP-153 reduces hepatic cholesterologenesis in hamsters fed a stock diet.
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Solubility Information

Solubility	DMF: 10 mg/mL DMSO: 30 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2838 mL	11.4189 mL	22.8378 mL
5 mM	0.4568 mL	2.2838 mL	4.5676 mL
10 mM	0.2284 mL	1.1419 mL	2.2838 mL
50 mM	0.0457 mL	0.2284 mL	0.4568 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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