

Product Data Sheet

Product Name: TMP-153

Cat. No.: GC45060

Chemical Properties

Cas. No. 128831-46-9

SMILES CC1=C(C)C=C2C(C(C3=C(Cl)C=CC=C3)=C(NC(NC4=C(F)C=C(F)C=C4)=O)C=N2)=C1

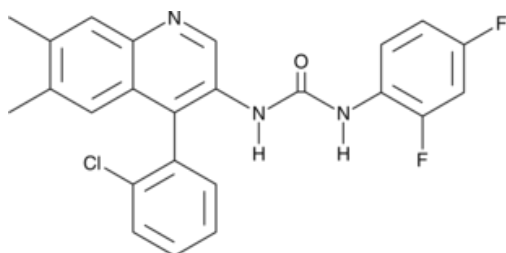
Formula C₂₄H₁₈ClF₂N₃O M.Wt 437.9

Solubility DMF: 10 mg/ml, DMSO: 30 mg/ml Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

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 IC₅₀ 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 (IC₅₀s = 150 and 330 nM, respectively). When fed as a dietary supplement (ED₅₀ = 0.81 mg/kg/day), TMP-153 reduces hepatic cholesterol synthesis in hamsters fed a stock diet.

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

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