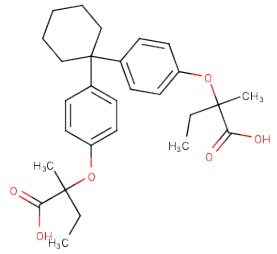
Data Sheet (Cat.No.T6450)

TargetMol®
A DRUG SCREENING EXPERT

Clinofibrate

Chemical Properties



CAS No. : 30299-08-2

Formula: C28H36O6

Molecular Weight: 468.58

Appearance: no data available

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

Biological Description

Description	Clinofibrate (Lipoclin)(IC50 of 0.47 mM), a lipid-lowering agent, inhibits hydroxymethylglutaryl coenzyme A reductase (HMGCR). It is utilized to control high cholesterol and triacylglyceride levels in the blood.
Targets(IC50)	HMG-CoA Reductase,Autophagy
In vitro	In the treatment of arteriosclerosis in rats, Clinofibrate significantly reduces high plasma cholesterol levels. When used in CAPD patients, it effectively decreases very low-density lipoprotein levels. Typically, Clinofibrate (600 mg/daily) reduces serum triglycerides by 36% and very low-density lipoprotein triglycerides by 48%. Additionally, it ameliorates abnormalities in low-density and high-density lipoprotein compositions, markedly increasing the content of high-density lipoprotein cholesterol.
In vivo	Clinofibrate, with an IC50 of 40 μM, acts on the activity of human liver 3α-hydroxysteroid dehydrogenase.

Solubility Information

Solubility	DMSO: 87 mg/mL (185.7 mM), Ethanol: 87 mg/mL (185.7 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1341 mL	10.6705 mL	21.3411 mL
5 mM	0.4268 mL	2.1341 mL	4.2682 mL
10 mM	0.2134 mL	1.0671 mL	2.1341 mL
50 mM	0.0427 mL	0.2134 mL	0.4268 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.

Reference

Matsuura K, et al, J Pharmacol Exp Ther, 1998, 285(3), 1096-1103.
Shirai K, et al, Artery, 1983, 12(3), 145-155.

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