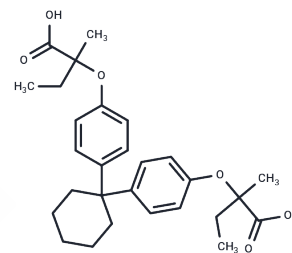


## Clinofibrate

## Chemical Properties

CAS No. :	30299-08-2
Formula:	C <sub>28</sub> H <sub>36</sub> O <sub>6</sub>
Molecular Weight:	468.58
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	Clinofibrate (Lipoclin)(IC <sub>50</sub> 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(IC <sub>50</sub> )	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 IC <sub>50</sub> of 40 μM, acts on the activity of human liver 3α-hydroxysteroid dehydrogenase.

## Solubility Information

Solubility	DMSO: 87 mg/mL (185.67 mM), Sonication is recommended. Ethanol: 87 mg/mL (185.67 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	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

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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

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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