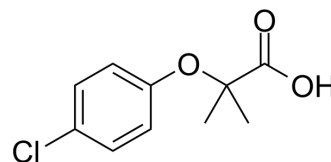


Clofibric acid

Cat. No.:	HY-B1415		
CAS No.:	882-09-7		
Molecular Formula:	C ₁₀ H ₁₁ ClO ₃		
Molecular Weight:	214.65		
Target:	Drug Metabolite; PPAR		
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (465.87 mM)
 H₂O : 1 mg/mL (4.66 mM); ultrasonic and warming and heat to 80°C
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.6587 mL	23.2937 mL	46.5875 mL
	5 mM	0.9317 mL	4.6587 mL	9.3175 mL
	10 mM	0.4659 mL	2.3294 mL	4.6587 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (11.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (11.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (11.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Clofibric acid (Chlorofibrinic acid), the pharmaceutically active metabolite of lipid regulators Clofibrate, Etofibrate and Etofyllinclofibrate, is a PPAR α agonist which exhibits hypolipidemic effects. Clofibric acid also is an herbicide^{[1][2][3]}.

IC₅₀ & Target

PPAR α ^[1]

REFERENCES

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- [3]. Kawashima Y, et, al. Increased activity of stearoyl-CoA desaturation in liver from rat fed clofibrac acid. Biochim Biophys Acta. 1982 Dec 13;713(3):622-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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