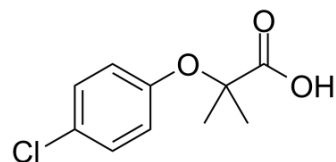


## Clofibric acid

<b>Cat. No.:</b>	HY-B1415		
<b>CAS No.:</b>	882-09-7		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>11</sub> ClO <sub>3</sub>		
<b>Molecular Weight:</b>	214.65		
<b>Target:</b>	PPAR; Drug Metabolite		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (465.87 mM)  
 H<sub>2</sub>O : 1 mg/mL (4.66 mM; ultrasonic and warming and heat to 80°C)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		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 $\alpha$  agonist which exhibits hypolipidemic effects. Clofibric acid also is an herbicide<sup>[1][2][3]</sup>.

#### IC<sub>50</sub> & Target

PPAR $\alpha$ <sup>[1]</sup>

---

## REFERENCES

- [1]. Forman BM, et, al. Hypolipidemic drugs, polyunsaturated fatty acids, and eicosanoids are ligands for peroxisome proliferator-activated receptors alpha and delta. Proc Natl Acad Sci U S A. 1997 Apr 29;94(9):4312-7.
- [2]. Salgado R, et, al. Biodegradation of clofibric acid and identification of its metabolites. J Hazard Mater. 2012 Nov 30;241-242:182-9.
- [3]. Kawashima Y, et, al. Increased activity of stearoyl-CoA desaturation in liver from rat fed clofibric acid. Biochim Biophys Acta. 1982 Dec 13;713(3):622-8.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA