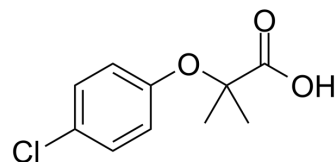


Clofibric acid

| | |
|--------------------|--|
| 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: | <div> Powder -20°C 3 years </div> <div> 4°C 2 years </div> <div> In solvent -80°C 2 years </div> <div> -20°C 1 year </div> |



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.

| | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg |
|------------------------------|--------------------------|------|-----------|------------|------------|
| | | | | | |
| Preparing Stock Solutions | 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 PPARα agonist which exhibits hypolipidemic effects. Clofibric acid also is an herbicide ^{[1][2][3]} . |
| IC ₅₀ & Target | PPARα ^[1] |

REFERENCES

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- [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 stearyl-CoA desaturation in liver from rat fed clofibric 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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