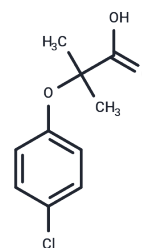


Clofibric acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 882-09-7 |
| Formula: | C ₁₀ H ₁₁ ClO ₃ |
| Molecular Weight: | 214.65 |
| 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 | Clofibric acid (Chlorofibrinic acid) is an antilipemic agent that is the biologically active metabolite of CLOFIBRATE. |
| Targets(IC50) | Antibacterial, Drug Metabolite, PPAR |
| In vitro | Clofibric acid enhances the expression of carbonyl reductase in vivo, reduces PGE2 levels, and diminishes the quantity of vascular endothelial growth factor (VEGF) in OVCAR-3 tumors and DISS-origin ascites. In solid OVCAR-3 tumors, it decreases microvascular density and induces apoptosis. Compared to the control, a 9,000 ppm Clofibric acid diet significantly reduces the growth of OVCAR-3 tumor xenografts s.c. by 46% and notably prolongs the survival of mice with DISS-origin malignant ascites. |
| In vivo | Clofibric acid enhances the expression of the CYP4A6 gene in RK13 cells transfected with PPAR-Gamma. |

Solubility Information

| | |
|---------------------|---|
| Solubility | Ethanol: 40 mg/mL (186.35 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 250 mg/mL (1164.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (46.59 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (46.59 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 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 |
| 50 mM | 0.0932 mL | 0.4659 mL | 0.9317 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.

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

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