Web: www.taiclone.com
Tel: +886-2-2735-9682
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Clofibrate

Catalog No: tcsc2300

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
637-07-0

Formula:
$C_{12}H_{15}ClO_3$

Pathway:
Cell Cycle/DNA Damage

Target:
PPAR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (412.03 mM); H2O :

Observed Molecular Weight:
242.7

Product Description

Clofibrate is an agonist of **PPAR**, with **EC_{50}**s of 50 μM, ~500 μM for murine PPARα and PPARγ, and 55 μM, ~500 μM for human PPARα and PPARγ, respectively.

IC50 & Target: EC50: 50 μM (Murine PPARα), ~500 μM (Murine PPARγ), 55 μM (Human PPARα), ~500 μM (Human PPARγ)[1]

In Vitro: Clofibrate is a PPAR agonist, with E_{50}s of 50 μM, ~500 μM for murine PPARα and PPARγ, and 55 μM, ~500 μM for human

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PPARα and PPARγ, respectively[1]. Clofibrate (0.5, 1, 2 mM) increases FABP1 expression in two fatty acid (FA)-treated rat hepatoma cells. Clofibrate lowers ROS levels after early treatment, much more than late treatment in FA-treated cells[2].

In Vivo: Clofibrate (0.5%) up-regulates serum concentrations and hepatic expression of FGF21 in fetuses, with a return to basal levels after Clofibrate administration withdrawal. Clofibrate administration-offspring have significantly higher expression of thermogenic genes (Ucp1, Cidea, Ppara Ppargc1a, Cpt1b) and UCP1 protein levels in response to HFD in inguinal fat, but not in retroperitoneal (combined with perirenal) or epididymal fat[3].