



LKT Laboratories, Inc.

## Fenofibrate

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### Product Information

**Product ID** F1853

**CAS No.** 49562-28-9

**Chemical Name** 2-[4-(4-Chlorobenzoyl)phenoxy]-2-methylpropanoic acid 1-methylethyl ester

**Synonym** Ankebin, Elasterin, Femprate, Lipantil, Lipoclar, Lipofene, Nolipax, Secalip, Tricor

**Formula** C<sub>20</sub>H<sub>21</sub>ClO<sub>4</sub>

**Formula Wt.** 360.83

**Melting Point** 80-81 °C

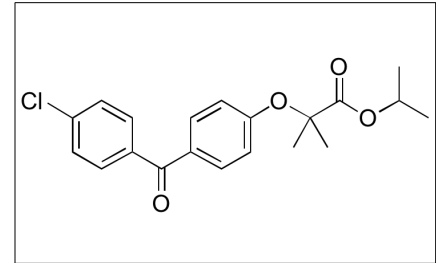
**Purity** ≥98%

**Solubility** Soluble in acetone, ether, benzene and chloroform. Slightly soluble in methanol and ethanol. Practically insoluble in water.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Fenofibrate is a fibric acid derivative fibrate compound that exhibits anti-hyperlipidemic, anti-fibrotic, and anticancer chemotherapeutic activities. Fenofibrate activates PPAR $\alpha$ , stimulating lipoprotein lipase and increasing lipolysis; this results in decreases in overall triglyceride, VLDL, and LDL levels as well as increases in HDL levels. Fenofibrate decreases oxidative stress-induced expression of  $\alpha$ -SMA, TGF- $\beta$ 1, IL-6, collagen-1, and TNF- $\alpha$ , preventing CCL4-induced hepatic fibrosis. Fenofibrate also upregulates expression of Bad, downregulates expression of Bcl-xl, survivin, cyclin D1, and CDK4, activates caspase-3 and NF- $\kappa$ B, and induces G0/G1 phase cell cycle arrest in breast cancer cells, suppressing cell and tumor growth in both in vitro and in vivo models.



**Bulk quantities available upon request**

Product ID	Size
F1853	5 g
F1853	25 g
F1853	100 g

**References** Gao Y, Shen W, Zhang Q, et al. Up-regulation of Hepatic VLDLR via PPAR $\alpha$  Is Required for the Triglyceride-Lowering Effect of Fenofibrate. *J Lipid Res.* 2014 Jun 4. [Epub ahead of print]. PMID: 24899625.

Li T, Zhang Q, Zhang J, et al. Fenofibrate induces apoptosis of triple-negative breast cancer cells via activation of NF- $\kappa$ B pathway. *BMC Cancer.* 2014 Feb 16;14:96. PMID: 24529079.

Xie C, Li L, Xu YP, et al. Anti-fibrosis effects of fenofibrate in mice with hepatic fibrosis. *Zhonghua Gan Zang Bing Za Zhi.* 2013 Dec;21(12):914-9. PMID: 24636293.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.