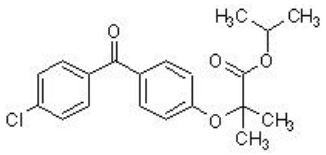
abcam

Product datasheet

Fenofibrate, PPAR-alpha agonist ab120832

3 References 2 Images

Overview

Product name	Fenofibrate, PPAR-alpha agonist
Description	Potent, selective PPAR-α agonist
Biological description	Potent and selective PPAR-α agonist (EC_{50} values are 18 and 30 µM at mouse and human receptors, respectively). Affinity is 10-fold less at PPAR-γ (EC_{50} values are 250 and 300 µM at mouse and human receptors, respectively). Hypolipidemic agent.
Purity	> 99%
CAS Number	49562-28-9
Chemical structure	

Properties

Chemical name	2-[4-(4-Chlorobenzoyl)phenoxy]-2-methylpropanoic acid isopropyl ester
Molecular weight	360.84
Molecular formula	$C_{20}H_{21}ClO_4$
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Refer to SDS for further information Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
Source	Synthetic

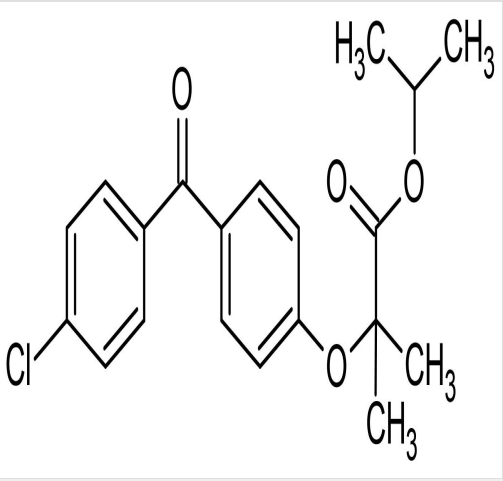
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120832 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

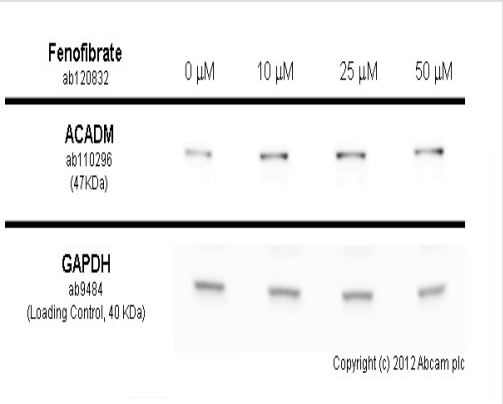
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Fenofibrate, PPAR-alpha agonist (ab120832)

2D chemical structure image of ab120832, Fenofibrate, PPAR-alpha agonist



Western blot - Fenofibrate, PPAR-alpha agonist (ab120832)

HL-60 cells were incubated at 37°C for 24h with vehicle control (0 µM) and different concentrations of fenofibrate (ab120832). Increased expression of ACADM in HL-60 cells correlates with an increase in fenofibrate concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab110296** at 1 µg/ml and **ab9484** at 1 µg/ml overnight at 4°C. Antibody binding was detected using an anti-mouse antibody conjugated to HRP (**ab97040**) at 1/10000 dilution and visualised using ECL development solution.

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