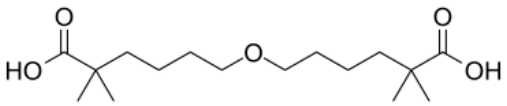
Product Data Sheet

Product Name: Gemcabene
Cat. No.: GC36128

Chemical Properties

Cas. No.	183293-82-5		
SMILES	O=C(O)C(C)(C)CCCCOCCCCC(C)(C)C(O)=O		
Formula	$C_{16}H_{30}O_5$	M.Wt	302.41
Solubility	DMSO: ≥ 125 mg/mL (413.35 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Gemcabene (PD-72953), a first-in-class lipid-lowering agent, lowers low-density lipoprotein cholesterol (LDL-C), decreases triglycerides, and raises high-density lipoprotein cholesterol (HDL-C) and lowers pro-inflammatory acute-phase protein, C-reactive protein (CRP), exerting anti-inflammatory activity[1][2][3].

Gemcabene calcium (PD-72953 calcium) significantly downregulates hepatic mRNA markers of inflammation (TNF-α, MCP-1, MIP-1β, CCR5, CCR2, NF-κB), lipogenesis and lipid modulation

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(ApoC-III, ACC1, ADH-4, Sulf-2), and fibrosis (TIMP-1 and MMP-2)[3].

[1]. Mandema JW, et al. Model-based development of gemcabene, a new lipid-altering agent. AAPS J. 2005 Oct 7;7(3):E513-22. [2]. Srivastava RAK, et al. Gemcabene, a First-in-Class Hypolipidemic Small Molecule in Clinical Development, Attenuates Osteoarthritis and Pain in Animal Models of Arthritis and Pain. Front Pharmacol. 2018 May 11;9:471. [3]. Oniciu DC, et al. Gemcabene downregulates inflammatory, lipid-altering and cell-signaling genes in the STAM™ model of NASH. PLoS One. 2018 May 30;13(5):e0194568.

Caution: Product has not been fully validated for medical applications. For research use only.
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