



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

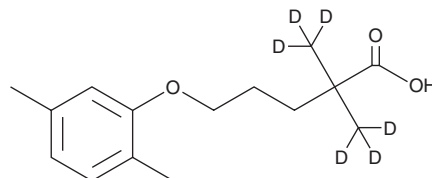
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Gemfibrozil-d₆ Item No. 31915

CAS Registry No.: 1184986-45-5
Formal Name: 5-(2,5-dimethylphenoxy)-2,2-di(methyl-d₃)-
pentanoic acid
Synonym: CI-719-d₆
MF: C₁₅H₁₆D₆O₃
FW: 256.4
Chemical Purity: ≥98% (Gemfibrozil)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₆); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Gemfibrozil-d₆ is intended for use as an internal standard for the quantification of gemfibrozil (Item No. 14835) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Gemfibrozil-d₆ is supplied as a solid. A stock solution may be made by dissolving the gemfibrozil-d₆ in the solvent of choice, which should be purged with an inert gas. Gemfibrozil-d₆ is soluble in methanol and DMSO.

Description

Gemfibrozil is a peroxisome proliferator-activated receptor α (PPAR α) and PPAR γ agonist (EC₅₀s = 193.3 and 147.8 μ M, respectively, in transactivation assays).¹ *In vivo*, gemfibrozil (50 mg/kg, p.o.) reduces serum total cholesterol, triglyceride, and LDL levels in a rat model of high-cholesterol diet-induced hyperlipidemia.² Gemfibrozil (100 mg/kg per day) reduces atherosclerotic plaque area, superoxide production, and expression of the genes encoding the NF- κ B subunit p65 and chemokine (C-C) motif ligand 2 (CCL2) in ApoE^{-/-} mice.³ Formulations containing gemfibrozil have been used in the treatment of high cholesterol.

References

1. Kim, N.J., Lee, K.O., Koo, B.W., *et al.* Design, synthesis, and structure-activity relationship of carbamate-tethered aryl propanoic acids as novel PPAR α / γ dual agonists. *Bioorg. Med. Chem. Lett.* **17**(13), 3595-3598 (2007).
2. Solanki, Y.B. and Jain, S.M. Antihyperlipidemic activity of *Clitoria ternatea* and *Vigna mungo* in rats. *Pharm. Biol.* **48**(8), 915-923 (2010).
3. Calkin, A.C., Cooper, M.E., Jandeleit-Dahm, K.A., *et al.* Gemfibrozil decreases atherosclerosis in experimental diabetes in association with a reduction in oxidative stress and inflammation. *Diabetologia* **49**(4), 766-774 (2006).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 02/19/2021

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM