
Product Data Sheet

Product Name: Ciprofibrate D6

Cat. No.: GC35698

Chemical Properties

Cas. No. 2070015-05-1

SMILES C1C(Cl)CC1C2=CC=C(OC(C([2H]))([2H])[2H])(C([2H]))([2H])[2H])C(O)=O)C=C2

Formula $C_{13}H_8D_6Cl_2O_3$ M.Wt 295.19

Solubility Soluble in DMSO 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**

Ciprofibrate-d₆ is intended for use as an internal standard for the quantification of ciprofibrate by GC- or LC-MS. Ciprofibrate is an agonist of peroxisome proliferator-activated receptor α (PPAR α ; EC₅₀ = 0.9 μ M in a transactivation assay).¹ It is selective for PPAR α over PPAR γ and PPAR δ at 300 μ M.² Ciprofibrate (250 μ M) induces cell cycle arrest at the G₂/M and S phases in Fao rat, but not HepG2 human, hepatocellular carcinoma cells.³ It decreases fasting plasma levels of triglycerides and increases fasting plasma glucose levels in the apolipoprotein CIII transgenic mouse model of hypertriglyceridemia when administered at a dose of 10 mg/kg.⁴ Formulations containing ciprofibrate have been used in the treatment of hypertriglyceridemia.

1.Quang, T.H., Ngan, N.T.T., Minh, C.V., et al. Anti-inflammatory and PPAR transactivational effects of secondary metabolites from the roots of *Asarum sieboldii* Bioorg. Med. Chem. Lett. 22(7)2527-2533(2012) 2. Forman, B.M., Chen, J., and Evans, R.M. Hypolipidemic drugs, polyunsaturated fatty acids, and eicosanoids are

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

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ligands for peroxisome proliferator-activated receptors α and δ Proc. Natl. Acad. Sci. USA 94(9)4312-4317(1997) 3. Passilly, P., Jannin, B., Hassell, S.J., et al. Human HepG2 and rat Fao hepatic-derived cell lines show different responses to ciprofibrate, a peroxisome proliferator: analysis by flow cytometry Exp. Cell. Res. 223(2)436-442(1996) 4. Bighetti, E.J.B., Patricio, P.R., Casquero, A.C., et al. Ciprofibrate increases cholesteryl ester transfer protein gene expression and the indirect reverse cholesterol transport to the liver Lipids Health Dis. 850(2009)

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