

Product Data Sheet

Product Name: Bezafibrate-d4

Cat. No.: GC45726

Chemical Properties

Cas. No. 1189452-53-6

SMILES C1C=C([2H])C([2H])=C(C(NCCC2=CC=C(OC(C)(C)C(O)=O)C=C2)=O)C([2H])=C1[2H]

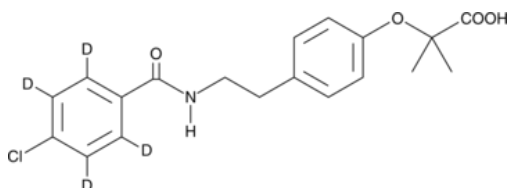
Formula C₁₉H₁₆ClD₄NO₄ M.Wt 365.8

Solubility DMSO: slightly soluble 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

Bezafibrate-d4 is intended for use as an internal standard for the quantification of bezafibrate by GC- or LC-MS. Bezafibrate is a non-selective agonist of peroxisome proliferator-activated receptors (PPARs; EC₅₀s = 50, 60, and 20 μM for human PPARα, PPARγ, and PPARδ, respectively).¹ It reduces triglyceride levels and the size of lipid droplets in an oleic acid-induced HepaRG hepatocyte model of steatosis when used at a concentration of 25 μM.² Bezafibrate (10 mg/kg per day) reduces plasma VLDL and LDL mass and triglyceride and free fatty acid levels in a high-fructose plus lard diet-induced rat model of insulin resistance.³

[1. Willson, T.M., Brown, P.J., Sternbach, D.D., et al. The PPARs: From orphan receptors to drug discovery. *J. Med. Chem.* 43(4), 527-550 (2000).|2. Rogue, A., Anthérieu, S., Vluggens, A., et al. PPAR agonists reduce steatosis in oleic acid-overloaded HepaRG cells. *Toxicol. Appl. Pharmacol.* 276(1), 73-81 (2014).|3. Matsui, H., Okumura, K., Kawakami, K., et al. Improved insulin sensitivity by bezafibrate in rats: Relationship to fatty acid composition of skeletal-muscle triglycerides. *Diabetes*

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

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46(3), 348-353 (1997).

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