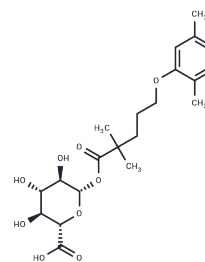


Gemfibrozil 1-O- $\beta$ -glucuronide

## Chemical Properties

CAS No. :	91683-38-4
Formula:	C <sub>21</sub> H <sub>30</sub> O <sub>9</sub>
Molecular Weight:	426.46
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Gemfibrozil 1-O- $\beta$ -Glucuronide, a metabolite of Gemfibrozil, is a potent and competitive inhibitor of P450 (CYP) isoform CYP2C8, with an IC <sub>50</sub> of 4.07 $\mu$ M.
Targets(IC <sub>50</sub> )	Others,Cytochromes P450,Drug Metabolite,PPAR
In vitro	Gemfibrozil 1-O- $\beta$ -Glucuronide inhibits CYP2C8-mediated M1, M23 formation with IC <sub>50</sub> s of 5.38 $\mu$ M, 4.30 $\mu$ M, and has no effects for CYP2C8-mediated M3 formation.?? Gemfibrozil 1-O- $\beta$ -Glucuronide has an IC <sub>50</sub> of 243 $\mu$ M for the CYP3A4- mediated metabolism.Gemfibrozil 1-O- $\beta$ -Glucuronide significantly inhibits the OATP2 (OATP1B1)-mediated uptake of Cerivastatin with an IC <sub>50</sub> of 24.3 $\mu$ M.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3449 mL	11.7244 mL	23.4489 mL
5 mM	0.469 mL	2.3449 mL	4.6898 mL
10 mM	0.2345 mL	1.1724 mL	2.3449 mL
50 mM	0.0469 mL	0.2345 mL	0.469 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Shitara Y, et al. Gemfibrozil and its glucuronide inhibit the organic anion transporting polypeptide 2 (OATP2/OATP1B1:SLC21A6)-mediated hepatic uptake and CYP2C8-mediated metabolism of cerivastatin: analysis of the mechanism of the clinically relevant drug-drug interaction between cerivastatin and gemfibrozil. *J Pharmacol Exp Ther.* 2004 Oct;311(1):228-36.

Baer BR, et al. Benzylic oxidation of gemfibrozil-1-O-beta-glucuronide by P450 2C8 leads to heme alkylation and irreversible inhibition. *Chem Res Toxicol.* 2009 Jul;22(7):1298-309.

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