## **Product** Data Sheet

# Gemfibrozil 1-O-β-glucuronide

Cat. No.: HY-129993 CAS No.: 91683-38-4 Molecular Formula: C21H30O9 Molecular Weight: 426.46

Target: Cytochrome P450; PPAR; Drug Metabolite

Pathway: Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear

Receptor

Storage: Powder -20°C 3 years

> -80°C In solvent 6 months

> > -20°C 1 month

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (234.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3449 mL	11.7244 mL	23.4489 mL
	5 mM	0.4690 mL	2.3449 mL	4.6898 mL
	10 mM	0.2345 mL	1.1724 mL	2.3449 mL

Please refer to the solubility information to select the appropriate solvent.

### **BIOLOGICAL ACTIVITY**

Description	Gemfibrozil 1-0-β-Glucuronide, a metabolite of Gemfibrozil (CI-719; HY-B0258), is a potent and competitive P450 (C		
	isoform CYP2C8 inhibitor with an IC $_{50}$ of 4.07 $\mu\text{M}^{\left[1\right]\left[2\right]}.$		

IC<sub>50</sub> & Target CYP3 CYP2C8  $4.07 \, \mu M \, (IC_{50})$ 

In Vitro  $Gemfibrozil\ 1-O-\beta-Glucuronide\ significantly\ inhibits\ the\ OATP2\ (OATP1B1)-mediated\ uptake\ of\ Cerivastatin\ (CER;\ HY-COMPACTION OF COMPACTION OF C$ 

129458) with an IC<sub>50</sub> of 24.3  $\mu$ M<sup>[1]</sup>.

?Gemfibrozil 1-0- $\beta$ -Glucuronide inhibits CYP2C8-mediated M1, M23 formation with IC $_{50}$ s of 5.38  $\mu$ M, 4.30  $\mu$ M, and has no

effects for CYP2C8-mediated M3 formation<sup>[1]</sup>.

?Gemfibrozil 1-O- $\beta$ -Glucuronide has an IC<sub>50</sub> of 243  $\mu$ M for the CYP3A4- mediated metabolism<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### **REFERENCES**



[2]. 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.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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