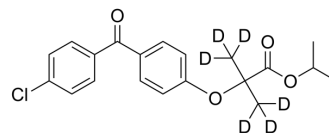


Fenofibrate-d₆

Cat. No.:	HY-17356S		
CAS No.:	1092484-56-4		
Molecular Formula:	C ₂₀ H ₁₅ D ₆ ClO ₄		
Molecular Weight:	366.87		
Target:	Cytochrome P450; PPAR; Autophagy; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Autophagy; Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Fenofibrate-d ₆ is the deuterium labeled Fenofibrate. Fenofibrate is a selective PPAR α agonist with an EC ₅₀ of 30 μ M. Fenofibrate also inhibits human cytochrome P450 isoforms, with IC ₅₀ s of 0.2, 0.7, 9.7, 4.8 and 142.1 μ M for CYP2C19, CYP2B6, CYP2C9, CYP2C8, and CYP3A4, respectively.	
IC₅₀ & Target	CYP2	CYP3
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Schelleman H, et al. Pharmacoepidemiologic and in vitro evaluation of potential drug-drug interactions of sulfonylureas with fibrates and statins. *Br J Clin Pharmacol*. 2014 Sep;78(3):639-48.
- [3]. Gong Y, et al. Fenofibrate Inhibits Cytochrome P450 Epoxygenase 2C Activity to Suppress Pathological Ocular Angiogenesis. *EBioMedicine*. 2016 Sep 30. pii: S2352-3964(16)30448-0.

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

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