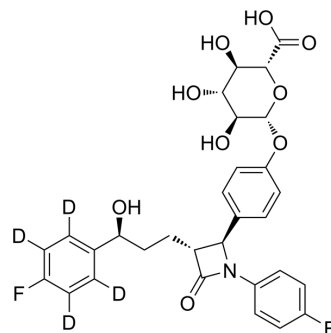


Ezetimibe phenoxy glucuronide-d₄-1

Cat. No.:	HY-135391S1
CAS No.:	2798007-90-4
Molecular Formula:	C ₃₀ H ₂₅ D ₄ F ₂ NO ₉
Molecular Weight:	589.57
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ezetimibe phenoxy glucuronide-d ₄ -1 is the deuterium labeled Ezetimibe phenoxy glucuronide. Ezetimibe phenoxy glucuronide (Ezetimibe glucuronide) is the active metabolite of Ezetimibe. Antihyperlipoproteinemic activity[1]. Ezetimibe is a potent cholesterol absorption inhibitor[2][3].
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[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Stolk MF, et al. Severe hepatic side effects of ezetimibe. *Clin Gastroenterol Hepatol*. 2006 Jul;4(7):908-11.
- [2]. Lee DH, et al. Ezetimibe, an NPC1L1 inhibitor, is a potent Nrf2 activator that protects mice from diet-induced nonalcoholic steatohepatitis. *Free Radic Biol Med*. 2016 Sep 12;99:520-532.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-223.

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

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