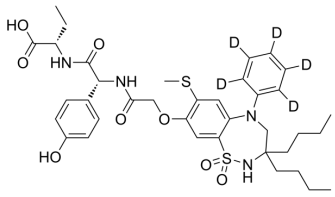
Odevixibat-d_5

Cat. No.:	HY-109120S
Molecular Formula:	$C_{37}H_{43}D_5N_4O_8S_2$
Molecular Weight:	745.96
Target:	Apical Sodium-Dependent Bile Acid Transporter; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Odevixibat-d_5 is deuterated labeled Odevixibat (HY-109120). Odevixibat (A4250) is a selective and orally active ileal apical sodium-dependent bile acid transporter (ASBT) inhibitor. Odevixibat decreases cholestatic liver and bile duct injury in mice model. Odevixibat has the potential for the treatment of primary biliary cirrhosis[1].
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.
In Vivo	Odevixibat (A4250)(0.01% (w/w) in chow diet; 4 weeks) improves sclerosing cholangitis and significantly reduces serum alanine aminotransferase, alkaline phosphatase and BAs levels, hepatic expression of pro-inflammatory and pro-fibrogenic genes and bile duct proliferation in Mdr2$^{-/-}$ mice[2]. In addition, Odevixibat (A4250) significantly reduces bile flow and biliary BA output, which correlates with reduced bsep transcription, while Ntcp and Cyp7a1 are induced[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Baghdasaryan A, et al. Inhibition of intestinal bile acid absorption improves cholestatic liver and bile duct injury in a mouse model of sclerosing cholangitis.J Hepatol. 2016 Mar;64(3):674-81.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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