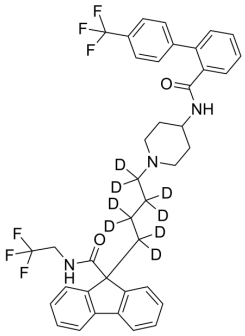
Lomitapide-d_8

Cat. No.:	HY-14667S
CAS No.:	2459377-96-7
Molecular Formula:	$C_{39}H_{29}D_8F_6N_3O_2$
Molecular Weight:	701.77
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lomitapide-d_8 is deuterium labeled Lomitapide. Lomitapide (AEGR-733; BMS-201038) is a potent inhibitor of microsomal triglyceride-transfer protein (MTP) with an IC50 of 8 nM in vitro.
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]. Davis KA. et al. Lomitapide: A novel agent for the treatment of homozygous familial hypercholesterolemia. Am J Health Syst Pharm. 2014 Jun 15;71(12):1001-8.

[3]. Dhote V, et al. Inhibition of microsomal triglyceride transfer protein improves insulin sensitivity and reduces atherogenic risk in Zucker fatty rats. Clin Exp Pharmacol Physiol. 2011 May;38(5):338-44.

[4]. Sulsky R, et al. 5-Carboxamido-1,3,2-dioxaphosphorinanes, potent inhibitors of MTP. Bioorg Med Chem Lett. 2004 Oct 18;14(20):5067-70.

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