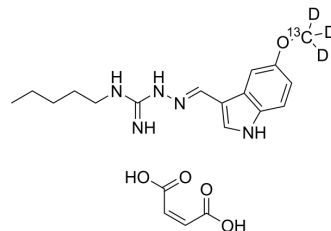


Tegaserod-¹³C,₃D maleate

Cat. No.:	HY-14153AS
Molecular Formula:	C ₁₉ ¹³ CH ₂₄ D ₃ N ₅ O ₅
Molecular Weight:	421.47
Target:	5-HT Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tegaserod- ¹³ C, ₃ D ₃ (maleate) is the ¹³ C- and deuterium labeled Tegaserod (maleate). Tegaserod maleate is a selective 5-HT ₄ receptor partial agonist and a 5-HT _{2B} receptor antagonist. Tegaserod maleate exhibits a promotile effect throughout the gastrointestinal (GI) tract[1][2][5].
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 ^[50] . 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):211-223.
- [2]. A E Vickers, et al. In vitro metabolism of tegaserod in human liver and intestine: assessment of drug interactions. *Drug Metab Dispos.* 2001 Oct;29(10):1269-76.
- [3]. D T Beattie, et al. The 5-HT₄ receptor agonist, tegaserod, is a potent 5-HT_{2B} receptor antagonist in vitro and in vivo. *Br J Pharmacol.* 2004 Nov;143(5):549-60.
- [4]. H-C Pan, et al. Tegaserod, a small compound mimetic of polysialic acid, promotes functional recovery after spinal cord injury in mice. *Neuroscience.* 2014 Sep 26;277:356-66.
- [5]. M D Crowell, et al. The effects of tegaserod, a 5-HT receptor agonist, on gastric emptying in a murine model of diabetes mellitus. *Neurogastroenterol Motil.* 2005 Oct;17(5):738-43.
- [6]. T C Seerden, et al. Experimental pancreatitis disturbs gastrointestinal and colonic motility in mice: effect of the prokinetic agent tegaserod. *Neurogastroenterol Motil.* 2007 Oct;19(10):856-64.

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