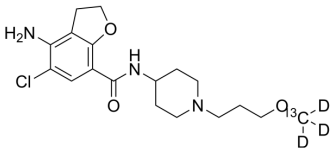
Prucalopride-$^{13}C,d_3$

Cat. No.:	HY-14151S
CAS No.:	2140306-00-7
Molecular Formula:	$C_{17}{}^{13}CH_{23}D_3ClN_3O_3$
Molecular Weight:	371.88
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Prucalopride-$^{13}C,d_3$ is the ^{13}C- and deuterium labeled Prucalopride[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[24]. 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]. Bouras EP, et al. Selective stimulation of colonic transit by the benzofuran 5HT4 agonist, prucalopride, in healthy humans. Gut. 1999 May;44(5):682-6.

[3]. Briejer MR, et al. The in vitro pharmacological profile of prucalopride, a novel enterokinetic compound. Eur J Pharmacol. 2001 Jun 29;423(1):71-83.

[4]. Emmanuel AV, et al. Randomised clinical trial: the efficacy of prucalopride in patients with chronic intestinal pseudo-obstruction--a double-blind, placebo-controlled, cross-over, multiple n = 1 study. Aliment Pharmacol Ther. 2012 Jan;35(1):48-55.

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