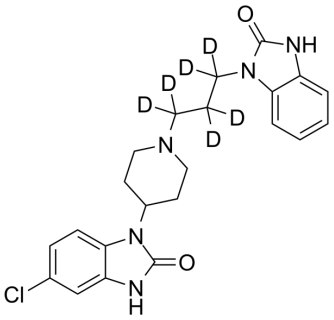
Domperidone-d6

Cat. No.:	HY-B0411S
CAS No.:	1329614-18-7
Molecular Formula:	$C_{22}H_{18}D_6ClN_5O_2$
Molecular Weight:	431.95
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Domperidone-d6 (R33812-d6) is the deuterium labeled Domperidone. Domperidone (R33812) is a selective dopamine-2 receptor antagonist. Domperidone acts as an antiemetic and a prokinetic agent through its effects on the chemoreceptor trigger zone and motor function of the stomach and small intestine[1][2].
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]. Reddymasu SC, et al. Domperidone: review of pharmacology and clinical applications in gastroenterology. Am J Gastroenterol. 2007;102(9):2036-2045.

[3]. Champion MC, et al. Domperidone, a new dopamine antagonist. CMAJ. 1986;135(5):457-461.

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