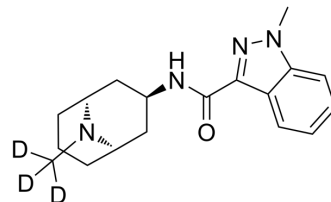


## Granisetron-d<sub>3</sub>

<b>Cat. No.:</b>	HY-132348S
<b>CAS No.:</b>	1224925-64-7
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>21</sub> D <sub>3</sub> N <sub>4</sub> O
<b>Molecular Weight:</b>	315.43
<b>Target:</b>	5-HT Receptor; Isotope-Labeled Compounds
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Granisetron-d <sub>3</sub> is the deuterium labeled Granisetron. Granisetron (BRL 43694) is a serotonin 5-HT <sub>3</sub> receptor antagonist used as an antiemetic to treat nausea and vomiting following chemotherapy[1][2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Sanger GJ, Nelson DR. Selective and functional 5-hydroxytryptamine<sub>3</sub> receptor antagonism by BRL 43694 (granisetron). *Eur J Pharmacol.* 1989 Jan 10;159(2):113-24.
- [3]. Maleki-Dizaji N, Eteraf-Oskouei T, Fakhrou A, The effects of 5HT<sub>3</sub> receptor antagonist granisetron on inflammatory parameters and angiogenesis in the air-pouch model of inflammation. *Int Immunopharmacol.* 2010 Sep;10(9):1010-6.
- [4]. Boccia RV, Gordan LN, Clark G, Efficacy and tolerability of transdermal granisetron for the control of chemotherapy-induced nausea and vomiting associated with moderately and highly emetogenic multi-day chemotherapy: a randomized, double-blind, phase III study. *Support Care Cancer.* 2011 Oct;19(10):1609-17.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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