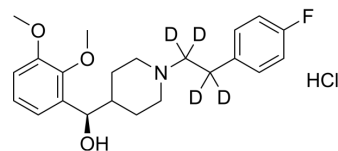


## Volinanserin-d<sub>4</sub> hydrochloride

Cat. No.:	HY-14940S
CAS No.:	1217617-73-6
Molecular Formula:	C <sub>22</sub> H <sub>25</sub> D <sub>4</sub> ClFNO <sub>3</sub>
Molecular Weight:	413.95
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Volinanserin-d <sub>4</sub> (hydrochloride) is the deuterium labeled Volinanserin hydrochlorid. Volinanserin is a potent and selective antagonist of 5-HT <sub>2</sub> receptor, with a K <sub>i</sub> of 0.36 nM, and shows 300-fold selectivity for 5-HT <sub>2</sub> receptor over 5-HT <sub>1c</sub> , alpha-1 and DA D <sub>2</sub> receptors. Volinanserin has antipsychotic activity[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]. Sorensen SM, et al. Characterization of the 5-HT<sub>2</sub> receptor antagonist MDL 100907 as a putative atypical antipsychotic: behavioral, electrophysiological and neurochemical studies. *J Pharmacol Exp Ther.* 1993 Aug;266(2):684-91.
- [3]. Ardayfio PA, et al. The 5-hydroxytryptamine<sub>2A</sub> receptor antagonist R-(+)-alpha-(2,3-dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperidinemethanol (M100907) attenuates impulsivity after both drug-induced disruption (dizocilpine) and enhancement (antidepressant drugs) of differential-reinforcement-of-low-rate 72-s behavior in the rat. *J Pharmacol Exp Ther.* 2008 Dec;327(3):891-7.

**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