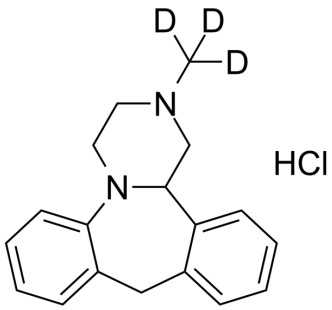
Mianserin-d3 hydrochloride

Cat. No.:	HY-B0188AS
CAS No.:	1219804-97-3
Molecular Formula:	$C_{18}H_{18}D_3ClN_2$
Molecular Weight:	303.84
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mianserin-d3 hydrochloride (Org GB 94-d3) is the deuterium labeled Mianserin hydrochloride. Mianserin hydrochloride (Org GB 94) is a H1 receptor inverse agonist and is a psychoactive agent of the tetracyclic antidepressant.
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]. Olianas MC,et al. The atypical antidepressant mianserin exhibits agonist activity at κ-opioid receptors. Br J Pharmacol. 2012 Nov;167(6):1329-41.

[3]. Roeder T. High-affinity antagonists of the locust neuronal octopamine receptor. Eur J Pharmacol. 1990 Nov 27;191(2):221-4.

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