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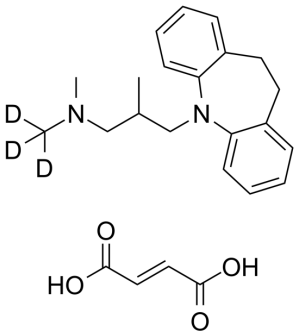
Trimipramine-d3 maleate

Cat. No.:	HY-B1213S
CAS No.:	1185245-93-5
Molecular Formula:	$C_{24}H_{27}D_3N_2O_4$
Molecular Weight:	413.52
Target:	5-HT Receptor; Bacterial
Pathway:	GPCR/G Protein; Neuronal Signaling; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Trimipramine-d3 maleate is the deuterium labeled Trimipramine maleate. Trimipramine maleate is a 5-HT receptor antagonist, with pK_is of 6.39, 8.10, 4.66 for 5-HT_{1C}, 5-HT_2 and 5-HT_{1A}, respectively[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]. Jenck F, et al. Evidence for a role of 5-HT1C receptors in the antiserotonergic properties of some antidepressant drugs. Eur J Pharmacol. 1993 Feb 9;231(2):223-9.

[3]. Juorio AV, et al. The effects of chronic trimipramine treatment on biogenic amine metabolism and on dopamine D2, 5-HT2 and tryptamine binding sites in rat brain. Gen Pharmacol. 1990;21(5):759-62.

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