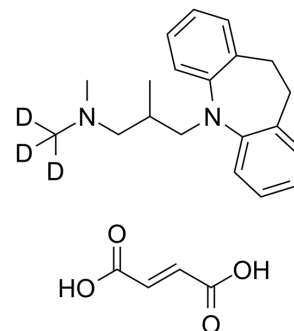


## Trimipramine-d3 maleate

<b>Cat. No.:</b>	HY-B1213S
<b>CAS No.:</b>	1185245-93-5
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>27</sub> D <sub>3</sub> N <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	413.52
<b>Target:</b>	5-HT Receptor; Bacterial
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Trimipramine-d3 maleate is the deuterium labeled Trimipramine maleate. Trimipramine maleate is a 5-HT receptor antagonist, with pK <sub>i</sub> s of 6.39, 8.10, 4.66 for 5-HT <sub>1C</sub> , 5-HT <sub>2</sub> and 5-HT <sub>1A</sub> , respectively <sup>[1][2]</sup> .
<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]. Jenck F, et al. Evidence for a role of 5-HT<sub>1C</sub> 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 D<sub>2</sub>, 5-HT<sub>2</sub> and tryptamine binding sites in rat brain. *Gen Pharmacol*. 1990;21(5):759-62.

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

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