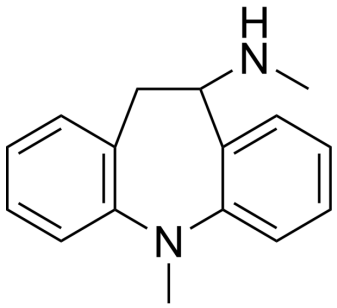
Metapramine

Cat. No.:	HY-107031
CAS No.:	21730-16-5
Molecular Formula:	$C_{16}H_{18}N_2$
Molecular Weight:	238.33
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Metapramine (19560 RP) is an antidepressant agent, belonging to the class of tricyclic compounds[1]. Metapramine inhibits norepinephrine reuptake, without affecting the reuptake of serotonin or dopamine[1][2][3]. Metapramine is a low-affinity antagonist of the N-methyl-D-aspartic acid (NMDA) receptor complex channel[4].
IC_{50} & Target	NMDA receptor complex channel[4]
In Vivo	Metapramine (19560 RP) (0-20 mg/kg; i.p.) shows analgesic effects in mice[5]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Swiss albino mice[5]
Dosage:	0-20 mg/kg
Administration:	Intraperitoneal injection
Result:	Increased jump latency, threshold voltage, reduction in writhes, and tail flick latency in a dose-dependent manner.

REFERENCES

[1]. M Bonierbale, et al. [Metapramine: antidepressant and psycho-stimulant]. Encephale. 1976;2(3):219-23.

[2]. H Dagonneau, et al. [Effects, in rats, of metapramine and carpipramine on the uptake of catecholamines and serotonin; relationship with 3H-imipramine binding]. C R Seances Soc Biol Fil. 1986;180(1):43-8.

[3]. J M Warter, et al. Immediate effects of 14 non MAOI antidepressants in rats with spontaneous petit mal-like seizures. Prog Neuropsychopharmacol Biol Psychiatry. 1990;14(2):261-70.

[4]. A Boireau, et al. The antidepressant metapramine is a low-affinity antagonist at N-methyl-D-aspartic acid receptors. Neuropharmacology. 1996;35(12):1703-7.

[5]. Adina Michael-Titus, et al. Analgesic effects of metapramine and evidence against the involvement of endogenous enkephalins in the analgesia induced by tricyclic antidepressants. Pain. 1987 Dec;31(3):391-400. doi: 10.1016/0304-3959(87)90167-9.

[6]. M Bonierbale, et al. [Metapramine: antidepressant and psycho-stimulant]. Encephale. 1976;2(3):219-23.

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