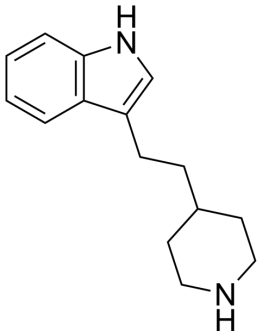
Indalpine

Cat. No.:	HY-A0160
CAS No.:	63758-79-2
Molecular Formula:	$C_{15}H_{20}N_2$
Molecular Weight:	228.33
Target:	Serotonin Transporter
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Indalpine (LM 5008) is a potent and selective 5-HT uptake blocker. Indalpine is potent in displacing ^{3}H-5-HT bound to brain membranes with the IC_{50} of 36 μM[1]. Indalpine, two antidepressant agent[2].
In Vivo	In keeping with its potent reuptake-blocking property, acute IV Indalpine produces a marked decrease in the firing rate of dorsal raphe 5-HT neurons (ED50 0.33 mg/kg). The firing rate of dorsal raphe 5-HT neurons is assessed following 2-, 7- and 14-day treatments with Indalpine (5 mg/day IP). After 2 days, the firing rate of 5-HT neurons is greatly reduced, after 7 days it has recovered partially and after 14 days it has returned to normal[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. R Samanin, et al. Further studies on the mechanism of serotonin-dependent anorexia in rats. Psychopharmacology (Berl). 1980;68(1):99-104.

[2]. P Blier, et al. Effects of the two antidepressant drugs mianserin and Indalpine on the serotonergic system: single-cell studies in the rat. Psychopharmacology (Berl). 1984;84(2):242-9.

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