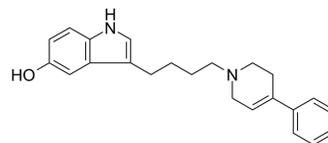


Roxindole

Cat. No.:	HY-106100
CAS No.:	112192-04-8
Molecular Formula:	C ₂₃ H ₂₆ N ₂ O
Molecular Weight:	346.47
Target:	Dopamine Receptor; Serotonin Transporter
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Roxindole (EMD 49980), an indol-alkyl-piperidine, is a potent agonist at dopamine autoreceptors, with an affinity for the D ₂ -like subtype in the low nanomolar range. Roxindole can be used for the research of positive and negative schizophrenic symptoms. Roxindole is a 5-HT _{1A} agonist and 5-HT uptake inhibitor. Antipsychotic and antidepressant activities ^{[1][2][3]} .
In Vivo	Roxindole inhibits apomorphine-induced climbing in mice and stereotyped behavior in rats with ED ₅₀ s of 1.4 mg/kg s.c. and 0.65 mg/kg s.c., respectively, and inhibits conditioned avoidance response in rats (ED ₅₀ =1.5 mg/kg s.c.) ^[1] . Roxindole (EMD 49980) (1, 3, 10 mg/kg; s.c) inhibits both effects of 8-OH-DPAT (flat body and forepaw treading) in normal rats (male Wistar 200-350g) ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bartoszyk GD, Harting J, Minck KO. Roxindole: psychopharmacological profile of a dopamine D₂ autoreceptor agonist. *J Pharmacol Exp Ther.* 1996;276(1):41-48.
- [2]. Wetzel H, et al. Roxindole, a dopamine autoreceptor agonist, in the treatment of positive and negative schizophrenic symptoms. *Am J Psychiatry.* 1994;151(10):1499-1502.
- [3]. Maj J, et al. Roxindole, a dopamine autoreceptor agonist with a potential antidepressant activity. II. Effects on the 5-hydroxytryptamine system. *Pharmacopsychiatry.* 1997;30(2):55-61.
- [4]. Prehn JH, et al. Effects of serotonergic drugs in experimental brain ischemia: evidence for a protective role of serotonin in cerebral ischemia. *Brain Res.* 1993;630(1-2):10-20.

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

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