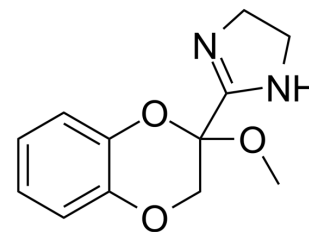


2-Methoxyidazoxan monohydrochloride

Cat. No.:	HY-103197
CAS No.:	109544-45-8
Molecular Formula:	C ₁₂ H ₁₅ ClN ₂ O ₃
Molecular Weight:	270.71
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



H-Cl

BIOLOGICAL ACTIVITY

Description	2-Methoxyidazoxan monohydrochloride (RX821002 hydrochloride) is a highly selective alpha 2-adrenoceptor antagonist with little or no imidazoline antagonist effect. RX 821002 has markedly higher affinity for (guinea-pig) alpha 2D-adrenoceptors (pK _d 9.7) than for (rabbit) alpha 2A-adrenoceptors (pK _d 8.2) ^{[1][2]} .
In Vivo	2-Methoxyidazoxan monohydrochloride (1 mg/kg) enhances locomotion in the novel environment, particularly in neonatal ventral hippocampal lesion (NVHL) rats. RX82100 has a biphasic effect on locomotion, consisting of an initial reduction preceding the enhancement ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Head GA. Importance of imidazoline receptors in the cardiovascular actions of centrally acting antihypertensive agents. *Ann N Y Acad Sci.* 1995;763:531-540.
- [2]. Trendelenburg AU, et al. Antagonists that differentiate between alpha 2A-and alpha 2D-adrenoceptors. *Naunyn Schmiedebergs Arch Pharmacol.* 1996;353(3):245-249.
- [3]. Sandner G, et al. Effects of caffeine or RX821002 in rats with a neonatal ventral hippocampal lesion. *Front Behav Neurosci.* 2014;8:15. Published 2014 Jan 28.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA