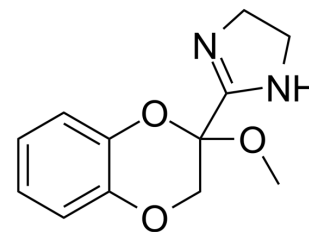


2-Methoxyidazoxan monohydrochloride

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:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



H-Cl

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (369.40 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.6940 mL	18.4699 mL	36.9399 mL
		5 mM		0.7388 mL	3.6940 mL	7.3880 mL
	10 mM		0.3694 mL	1.8470 mL	3.6940 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (184.70 mM); Clear solution; Need ultrasonic					

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