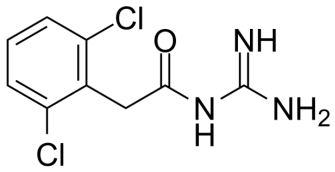
Guanfacine

Cat. No.:	HY-17416A
CAS No.:	29110-47-2
Molecular Formula:	$C_9H_9Cl_2N_3O$
Molecular Weight:	246.09
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Guanfacine is a selective α2A receptor agonist.Target: α2A ReceptorGuanfacine is a sympatholytic. It is a selective α2A receptor agonist. These receptors are concentrated heavily in the prefrontal cortex and the locus coeruleus, with the potential to improve attention resulting from interaction with receptors in the former. Guanfacine lowers both systolic and diastolic blood pressure by activating the central nervous system α2A norepinephrine autoreceptors, which results in reduced peripheral sympathetic outflow and thus a reduction in peripheral sympathetic tone [1, 2].

REFERENCES

[1]. Kolar, D., et al., Treatment of adults with attention-deficit/hyperactivity disorder. Neuropsychiatr Dis Treat, 2008. 4(2): p. 389-403.

[2]. Zwieten, P.v., M. Thoolen, and P. Timmermans, The pharmacology of centrally acting antihypertensive drugs. British journal of clinical pharmacology, 1983. 15(Supplement s4): p. 455S-462S.

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