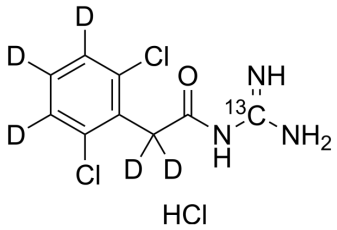
Guanfacine-$^{13}C,d_5$ hydrochloride

Cat. No.:	HY-17416S2
Molecular Formula:	$C_8{}^{13}CH_5D_5Cl_3N_3O$
Molecular Weight:	288.58
Target:	Adrenergic Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Guanfacine-$^{13}C,d_5$ hydrochloride is the deuterium and ^{13}C labeled Guanfacine hydrochloride (HY-17416). Guanfacine hydrochloride is an orally active noradrenergic α2A agonist and has high selective for the α2A receptor subtype. Guanfacine has effects in producing hypotension and sedation. Guanfacine can be used for the research of a variety of prefrontal cortex (PFC) cognitive disorders, including tourette's syndrome and attention deficit hyperactivity disorder (ADHD)[1][2][3].

REFERENCES

[1]. Arnsten AF, et al. Guanfacine for the treatment of cognitive disorders: a century of discoveries at Yale. Yale J Biol Med. 2012 Mar;85(1):45-58. Epub 2012 Mar 29.

[2]. Van Zwieten PA, et al. The pharmacology of centrally acting antihypertensive drugs. Br J Clin Pharmacol. 1983;15(Suppl 4):455S–462S.

[3]. Wang M, et al. Alpha2A-adrenoceptors strengthen working memory networks by inhibiting cAMP-HCN channel signaling in prefrontal cortex. Cell. 2007 Apr 20;129(2):397-410.

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