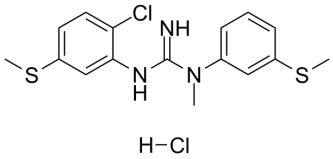
CNS-5161 hydrochloride

Cat. No.:	HY-101809
CAS No.:	160756-38-7
Molecular Formula:	$C_{16}H_{19}Cl_2N_3S_2$
Molecular Weight:	388.38
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CNS-5161 hydrochloride is a novel NMDA ion-channel antagonist that interacts with the NMDA receptor/ion channel site to produce a noncompetitive blockade of the actions of glutamate.
IC_{50} & Target	NMDA receptor/ion channel[1]
In Vitro	CNS-5161 (CNS 5161) is a novel and selective noncompetitive antagonist of the NMDA subset of glutamate receptors in the mammalian brain. CNS-5161 has potent inhibitory activity in vitro at the NMDA ion channel and is able to displace [^{3}H] MK-801 binding with a K_i of 1.8 nM in synaptosomal membrane preparations from rat brain[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In the neonatal rat NMDA excitotoxicity model in vivo, CNS-5161 (CNS 5161) protects against the necrotic effects of exogenous N-methyl-D-aspartate with an ED_{80} of 4 mg/kg by the intraperitoneal (i.p.) route. CNS-5161 also shows a 91% inhibition of audiogenic seizures in DBA/2 mice at 4 mg/kg i.p., and has a neuroprotective effect following hypoxix/ischaemic brain injury in neonatal rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Walters MR, et al. Early clinical experience with the novel NMDA receptor antagonist CNS 5161. Br J Clin Pharmacol. 2002 Mar;53(3):305-11.

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