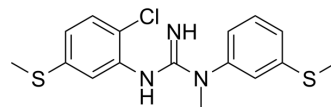


## CNS 5161

Cat. No.:	HY-101809A
CAS No.:	160754-76-7
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> ClN <sub>3</sub> S <sub>2</sub>
Molecular Weight:	351.92
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

<b>Description</b>	CNS-5161 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.
<b>IC<sub>50</sub> &amp; Target</b>	NMDA receptor/ion channel <sup>[1]</sup>
<b>In Vitro</b>	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 [ <sup>3</sup> H] MK-801 binding with a K <sub>i</sub> of 1.8 nM in synaptosomal membrane preparations from rat brain <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	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 <sub>80</sub> 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 hypoxia/ischaemic brain injury in neonatal rats <sup>[1]</sup> . 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.

**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