Product Data Sheet

Product Name: CNS-5161 hydrochloride (CNS 5161A)
Cat. No.: GC32553

Chemical Properties

Cas. No.	160756-38-7		
SMILES	N=C(NC1=CC(SC)=CC=C1Cl)N(C)C2=CC=CC(SC)=C2.[H]Cl		
Formula	$C_{16}H_{19}Cl_2N_3S_2$	M.Wt	388.38
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

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.

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 [3H] MK-801 binding with a Ki of 1.8 nM in synaptosomal membrane preparations from rat brain[1].

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 ED80 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].

[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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA