

CNS-5161 hydrochloride

Chemical Properties

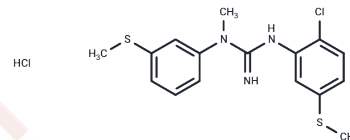
CAS No. : 160756-38-7

Formula: C₁₆H₁₉Cl₂N₃S₂

Molecular Weight: 388.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	CNS-5161 hydrochloride (CNS 5161A) is a new antagonist of NMDA ion-channel. It interacts with the NMDA receptor/ion channel site to produce a noncompetitive blockade of the actions of glutamate.
Targets(IC50)	NMDAR,iGluR
In vitro	CNS-5161 has potent inhibitory activity in vitro at the NMDA ion channel and is able to displace [3H] MK-801 binding with a K _i of 1.8 nM in synaptosomal membrane preparations from rat brain.
In vivo	In the neonatal rat NMDA excitotoxicity model in vivo, CNS-5161 (i.p.) protects against the necrotic effects of exogenous N-methyl-D-aspartate (ED80: 4 mg/kg). CNS-5161 also demonstrates a 91% inhibition of audiogenic seizures in DBA/2 mice at 4 mg/kg i.p. and exhibits neuroprotective effects following hypoxic/ischaemic brain injury in neonatal rats[1].

Solubility Information

Solubility	DMSO: 245 mg/mL (630.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5748 mL	12.874 mL	25.748 mL
5 mM	0.515 mL	2.5748 mL	5.1496 mL
10 mM	0.2575 mL	1.2874 mL	2.5748 mL
50 mM	0.0515 mL	0.2575 mL	0.515 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Walters MR, et al. Early clinical experience with the novel NMDA receptor antagonist CNS 516Br J Clin Pharmacol. 2002 Mar;53(3):305-11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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