Web: www.taiclone.com
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A 438079

Catalog No: tcsc1293

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
899507-36-9

Formula:
$C_{13}H_9Cl_2N_5$

Pathway:
Membrane Transporter/Ion Channel

Target:
P2X Receptor

Purity / Grade:
>98%

Solubility:
H2O : 0.2 mg/mL (0.65 mM; Need ultrasonic)

Observed Molecular Weight:
306.15

Product Description

A 438079 is a potent, and selective **$P2X_7$ receptor** antagonist with pIC_{50} of 6.9.

IC50 & Target: pIC50: 6.9 ($P2X_7$ receptor)

In Vitro: In 1321N1 cells stably expressing rat $P2X_7$ receptors, A 438079 blocks BzATP-(10 μM) evoked changes in intracellular calcium concentrations with an IC_{50} of 321 nM. A 438079 is also selective for the $P2X_7$ receptor, at concentrations up to 100 μM[1].

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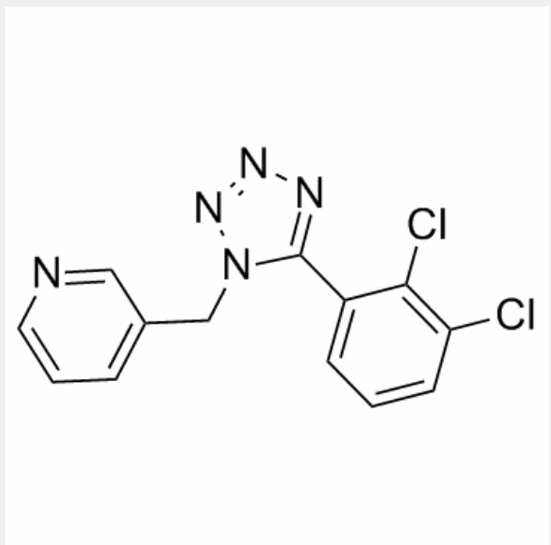
In Vivo: A 438079 (80 μmol/kg, i.v.) reduces noxious and innocuous evoked activity of different classes of spinal neurons in neuropathic rats. A 438079 (100 and 300 μmol/kg, i.p.) significantly raises withdrawal thresh-olds in both the SNL and CCI models[1]. Intraperitoneal injection of A 438079 (5 and 15 mg/kg) 60 min after triggering seizures reduces seizure severity and neuronal death within the hippocampus. A 438079 has superior neuroprotective effects compared with an equally dose of phenobarbital (25 mg/kg) [2]. A 438079 partially but significantly prevents the 6-OHDA-induced depletion of striatal DA stores[3]. Pretreatment with A 438079 reduces nociceptive behaviour scores in the HC model[4].



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