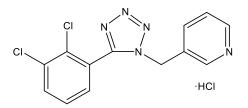


Catalog # 10-4063 A-438079 HCI

CAS# 899431-18-6 3-[5-(2,3-Dichlorophenyl)tetrazol-1-ylmethyl]pyridine hydrochloride Lot # FBS2152



A-438079 (899431-18-6) is a competitive P2X7 receptor antagonist (pIC50 = 6.9).¹ Displayed antinociceptive effects in a rat model of neuropathic pain.² A-438079 prevented the LPS-induced release of IL-1ß and attenuated LPS-induced *(via intrathecal lumbar injection)* mechanical hyperalgesia in rat hindpaws.³ It prevented mechanical hyperalgesia following peripheral nerve injury.⁴ A-438079 protected against cerebral ischemia/reperfusion injury in a rat model via reduction of the neuroinflammatory response.⁵

- 1) Nelson *et al.* (2006) Structure-activity relationship studies on a series of novel, substitutes 1-benzyl-5-phenyltetrazole P2X7 antagonists; J. Med. Chem. **49** 3659
- 2) McGaraughty et al. (2007) P2X7-related modulation of pathological nociception in rats; Neuroscience 146 1817
- Clark et al. (2010) P2X7-dependent release of interleukin-1beta and nociception in the spinal cord following lipopolysaccharide; J. Neurosci. 30 573
- 4) Kobayashi et al. (201) Induction of the P2X7 receptor in spinal microglia in a neuropathic pain model; Neurosci. Lett. 504 57
- 5) Chu et al. (2012) Inhibition of P2X7 receptor ameliorates transient global cerebral ischemia/reperfusion injury via modulating inflammatory responses in the rat hippocampus; J. Neuroinflammation **9** 69

PHYSICAL DATA

Molecular Weight:	342.61
Molecular Formula:	C13H9Cl2N5+HCl
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in
	DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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