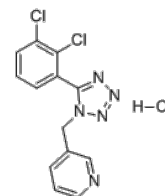


**Product Name** : A438079 hydrochloride  
**Cat. No.** : PC-21904  
**CAS No.** : 899431-18-6  
**Molecular Formula** : C<sub>13</sub>H<sub>10</sub>Cl<sub>3</sub>N<sub>5</sub>  
**Molecular Weight** : 342.61  
**Target** : P2X Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

A438079 hydrochloride is a selective, competitive P2X7 receptor antagonist with pIC<sub>50</sub> of 6.9 for the inhibition of Ca<sup>2+</sup> influx in the human recombinant P2X7 cell line.

A438079 shows little to no activity at other P2 receptors (IC<sub>50</sub> > 10 μM).

A438079 inhibits methamphetamine-induced microglial migration and phagocytosis in vitro.

A438079 possesses antinociceptive activity in models of neuropathic pain in vivo.

## References

Tsukimoto M, et al. Biochem Biophys Res Commun. 2009 Jul 10;384(4):512-8.

Nelson DW, et al. J Med Chem. 2006 Jun 15;49(12):3659-66. doi: 10.1021/jm051202e.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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