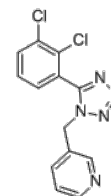


Product Name : A438079
Cat. No. : PC-21903
CAS No. : 899507-36-9
Molecular Formula : C₁₃H₉Cl₂N₅
Molecular Weight : 306.15
Target : P2X Receptor
Solubility : 10 mM in DMSO



Biological Activity

A438079 is a selective, competitive P2X7 receptor antagonist with pIC₅₀ of 6.9 for the inhibition of Ca²⁺ influx in the human recombinant P2X7 cell line.

A438079 shows little to no activity at other P2 receptors (IC₅₀ > 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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