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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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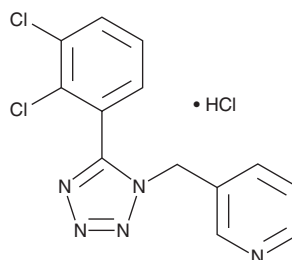
PRODUCT INFORMATION



A-438079 (hydrochloride)

Item No. 14580

CAS Registry No.: 899431-18-6
Formal Name: 3-[[5-(2,3-dichlorophenyl)-1H-tetrazol-1-yl]methyl]-pyridine, monohydrochloride
MF: C₁₃H₉Cl₂N₅ • HCl
FW: 342.6
Purity: ≥98%
Supplied as: A solid
Storage: Room temperature
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

A-438079 (hydrochloride) is supplied as a solid. A-438079 (hydrochloride) is soluble in the organic solvent DMSO at a concentration of 100 mM. It is also soluble in water at a concentration of 5 mM, respectively. We do not recommend storing the aqueous solution for more than one day.

Description

A-438079 is a competitive antagonist of the nucleotide receptor P2X₇ (pIC₅₀ = 6.9).¹ It inhibits both calcium flux and IL-1β release mediated by P2X₇ while not affecting the activity of other P2X receptors.^{1,2} A-438079 is effective in evaluating the role of P2X₇ in nociception, oxidative stress, and apoptosis in cells and animals.³⁻⁵

References

1. Nelson, D.W., Gregg, R.J., Kort, M.E., *et al.* Structure-activity relationship studies on a series of novel, substituted 1-benzyl-5-phenyltetrazole P2X₇ antagonists. *J. Med. Chem.* **49**(12), 3659-3666 (2006).
2. Donnelly-Roberts, D.L. and Jarvis, M.F. Discovery of P2X₇ receptor-selective antagonists offers new insights into P2X₇ receptor function and indicates a role in chronic pain states. *Br. J. Pharmacol.* **151**(5), 571-579 (2007).
3. McGaraughty, S., Chu, K.L., Namovic, M.T., *et al.* P2X₇-related modulation of pathological nociception in rats. *Neuroscience* **146**(4), 1817-1828 (2007).
4. Haanes, K.A., Schwab, A., and Novak, I. The P2X₇ receptor supports both life and death in fibrogenic pancreatic stellate cells. *PLoS One* **7**(12), (2012).
5. Bartlett, R., Yerbury, J.J., and Sluyter, R. P2X₇ receptor activation induces reactive oxygen species formation and cell death in murine EOC13 microglia. *Mediators Inflamm.* **2013**, 1-18 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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