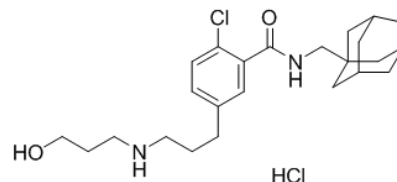


Product Name : AZD-9056 hydrochloride
Cat. No. : PC-45634
CAS No. : 345303-91-5
Molecular Formula : C₂₄H₃₆Cl₂N₂O₂
Molecular Weight : 455.46084
Target : P2X Receptor
Solubility : DMSO: ≥ 34 mg/mL



Biological Activity

AZD-9056 hydrochloride is a potent, selective, orally bioavailable **P2X7 receptor** antagonist; inhibits release of pro-inflammatory mediators from isolated human peripheral monocytes (IL-1 β and IL-18) and human alveolar macrophages (IL-1 β) with IC₅₀ values of 10-13 nM.

AZD-9056 hydrochloride displays >100-fold selectivity and specificity other P2X receptors.

AZD-9056 hydrochloride also is an inhibitor of BCRP and weakly inhibited BCRP-mediated transport of methotrexate (IC₅₀=92 μ M).

AZD-9056 hydrochloride significantly reduces disease severity in the streptococcal cell wall (SCW) model of arthritis.

References

Hu H, et al. *Int J Mol Med.* 2016 Dec;38(6):1922-1932.

Seeland S, et al. *Int J Mol Med.* 2016 Dec;38(6):1922-1932.

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

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