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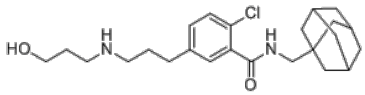
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AZD-9056
Cat. No.	:	PC-70094
CAS No.	:	345304-65-6
Molecular Formula	:	$C_{24}H_{35}ClN_2O_2$
Molecular Weight	:	419.006
Target	:	P2X Receptor
Solubility	:	10 mM in DMSO



Biological Activity

AZD-9056 is a potent, selective, orally bioavailable **P2X7 receptor** antagonist, inhibits release of pro-inflammatory mediators from isolated human peripheral monocytes (IL-1β and IL-18) and human alveolar macrophages (IL-1β) with IC50 values of 10-13 nM.
AZD-9056 displays >100-fold selectivity and specificity other P2X receptors.
AZD-9056 also is an inhibitor of BCRP and weakly inhibited BCRP-mediated transport of methotrexate (IC50=92 uM).
AZD-9056 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.

E-mail: tech@probechem.com