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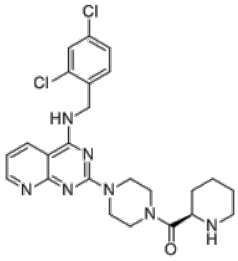
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CCR4-IN-22
Cat. No.	:	PC-73263
CAS No.	:	668980-17-4
Molecular Formula	:	$C_{24}H_{27}Cl_2N_7O$
Molecular Weight	:	500.428
Target	:	Chemokine Receptor (CCR and CXCR)
Solubility	:	10 mM in DMSO



Biological Activity

CCR4-IN-22 (Compound 22) is a potent, selective CCR4 antagonist with IC50 of 20 nM, efficiently inhibits CCR4-mediated Ca2+ mobilization and chemotaxis in vitro with IC50 of 3 and 7 nM, repectively.
Compound 22 displays >500-fold less effective against other chemokine receptors (CCR2, CCR3 and CXCR3). and GPCRs (5-HT1A, 5-HT6 and 5-HT7).
Compound 22 suppressed eosinophil accumulation in the lungs of antigenimmunized mice in vivo, efficacious in a murine allergic inflammation model (ED50 10 mg/kg).
Compound 22, as well as anti-CCL17 or anti-CCL22 antibody selectively suppressed accumulation of Th2 cells and eosinophils in the lungs of Th2-transferred and OVA-challenged mice.
Compound 22 also inhibited bronchial hyperresponsiveness but had little effect on goblet cell hyperplasia in Th2-transferred and OVA-challenged mice.

References

Ashok V Purandare, et al. ***Bioorg Med Chem Lett.*** 2007 Feb 1;17(3):679-82.

O Kaminuma, et al. ***Clin Exp Allergy***. 2012 Feb;42(2):315-25.

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

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