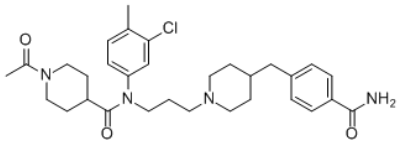
ProbeChem®
*Expedite Your Scientific Research*

WWW.PROBECHEM.COM

# Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

**Product Name** : TAK-220
**Cat. No.** : PC-45771
**CAS No.** : 333994-00-6
**Molecular Formula** : $C_{31}H_{41}ClN_4O_3$
**Molecular Weight** : 553.1353
**Target** : Chemokine Receptor (CCR and CXCR)
**Solubility** : 10 mM in DMSO




## Biological Activity

TAK-220 (TAK220) is a potent, specific, orally bioavailable **CCR5** antagonist that blocks the binding of MIP-1α to CCR5 with IC50 of 1.4 nM.
TAK-220 shows no affinity for CCR1, CCR2b, CCR3, CCR4, or CCR7.
TAK-220 inhibits the replication of 6 CCR5-using (R5) HIV-1 clinical isolates in peripheral blood mononuclear cells (PBMCs) with mean EC90 of 13 nM.
TAK-220 selectively inhibits R5 HIV-1 replication by interfering with coreceptor-mediated entry of the virus into host cells; exhibits a good pharmacokinetic profile in monkeys.

## References


Tremblay CL, et al. ***Antimicrob Agents Chemother***. 2005 Aug;49(8):3483-5.

Takashima K, et al. ***Antimicrob Agents Chemother.*** 2005 Aug;49(8):3474-82.

Imamura S, et al. ***J Med Chem.*** 2006 May 4;49(9):2784-93.



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



E-mail: tech@probechem.com