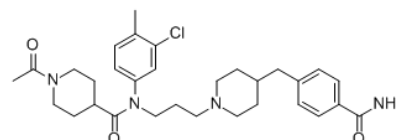


**Product Name** : TAK-220  
**Cat. No.** : PC-45771  
**CAS No.** : 333994-00-6  
**Molecular Formula** : C<sub>31</sub>H<sub>41</sub>ClN<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 553.1353  
**Target** : Chemokine Receptor (CCR and CXCR)  
**Solubility** : 10 mM in DMSO



### Biological Activity

TAK-220 (TAK220) is a potent, specific, orally bioavailable **CCR5** antagonist that blocks the binding of MIP-1α to CCR5 with IC<sub>50</sub> 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 EC<sub>90</sub> 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!**

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