

Product Name : TAK-220

Synonyms : TAK 220; TAK220

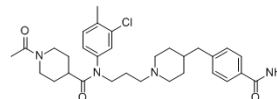
Cat No. : M14130

CAS Number : 333994-00-6

Molecular Formula : C₃₁H₄₁ClN₄O₃

Formula Weight : 553.14

Chemical Name : 4-Piperidinecarboxamide, 1-acetyl-N-[3-[4-[[4-(aminocarbonyl)phenyl]methyl]-1-piperidinyl]propyl]-N-(3-chloro-4-methylphenyl)-



Description : A potent, specific, orally bioavailable CCR5 antagonist that blocks the binding of MIP-1α to CCR5 with IC₅₀ of 1.4 nM; shows no affinity for CCR1, CCR2b, CCR3, CCR4, or CCR7; inhibits the replication of 6 CCR5-using (R5) HIV-1 clinical isolates in peripheral blood mononuclear cells (PBMCs) with mean EC₉₀ of 13 nM; 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. HIV Infection Phase 1 Clinical

Pathway : GPCR/G Protein

Target : Chemokine Receptor

Receptor : Chemokine Receptor

Solubility : 10 mM in DMSO

SMILES : O=C(C1CCN(C(C)=O)CC1)N(CCCN2CCC(CC3=CC=C(C(N)=O)C=C3)CC2)C4=CC=C(C)C(Cl)=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tremblay CL, et al. Antimicrob Agents Chemother. 2005 Aug;49(8):3483-5. | 2. Takashima K, et al. Antimicrob Agents Chemother. 2005 Aug;49(8):3474-82. | 3. Imamura S, et al. J Med Chem. 2006 May 4;49(9):2784-93.