



Product Information

CCR inhibitor TAK-220, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ147

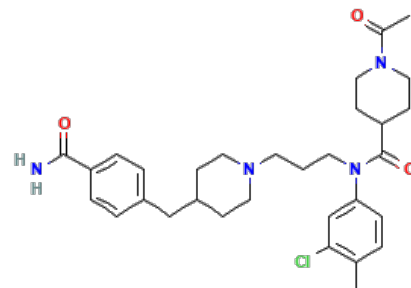
Size: 1 mg; 5 mg; 10 mg; 50 mg

CAS Number: 333994-00-6

Compound CID: 5275766

Synonym: 333994-00-6; CCR inhibitor; TAK220; TAK 220

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	TAK-220 specifically binds to chemokine receptors. This binding blocks the receptors and prevents the corresponding chemokines from exerting their effects on immune cells, leading to reduced chemotaxis and cell activation. It targets HIV-1 (CTV), HIV-1 (CTV), HIV-1 (HHA), HIV-1 (HHA), HIV-1 (HKW), HIV-1 (HKW), HIV-1 (HNK), HIV-1 (HNK), HIV-1 (HTN), HIV-1 (HTN), HIV-1 (KK).
Molecular Weight	553.14
Molecular Formula	C ₃₁ H ₄₁ ClN ₄ O ₃
Targets	HIV-1 (CTV): 0.72 nM (EC ₅₀ , in PBMCs); HIV-1 (CTV): 5 nM (EC ₉₀ , in PBMCs); HIV-1 (HHA): 0.55 nM (EC ₅₀ , in PBMCs); HIV-1 (HHA): 4 nM (EC ₉₀ , in PBMCs); HIV-1 (HKW): 1.7 nM (EC ₅₀ , in PBMCs); HIV-1 (HKW): 12 nM (EC ₉₀ , in PBMCs); HIV-1 (HNK): 1.7 nM (EC ₅₀ , in PBMCs); HIV-1 (HNK): 28 nM (EC ₉₀ , in PBMCs); HIV-1 (HTN): 0.93 nM (EC ₅₀ , in PBMCs); HIV-1 (HTN): 15 nM (EC ₉₀ , in PBMCs); HIV-1 (KK): 1.2 nM (EC ₅₀ , in PBMCs)
IUPAC Name	1-Acetyl-N-[3-[4-[(4-carbamoylphenyl)methyl]piperidin-1-yl]propyl]-N-(3-chloro-4-methylphenyl)piperidine-4-carboxamide
InChI	InChI=1S/C31H41ClN4O3/c1-22-4-9-28(21-29(22)32)36(31(39)27-12-18-35(19-13-27)23(2)37)15-3-14-34-16-10-25(11-17-34)20-24-5-7-26(8-6-24)30(33)38/h4-9,21,25,27H,3,10-20H2,1-2H3,(H2,33,38)
InChI Key	ASSJTMUEFHUKMJ-UHFFFAOYSA-N
Canonical SMILES	CC1=C(C=C(C=C1)N(CCCN2CCC(CC2)CC3=CC=C(C=C3)C(=O)N)C(=O)C4CCN(CC4)C(=O)C)Cl
Form	Lyophilized powder
Purity	$\geq 98\%$
Identity	Confirmed by NMR/HPLC/MS.



Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	TAK-220 is a CCR inhibitor studied for its effects on pathways involved in immune response and potential therapeutic applications.
Storage	Store at -20°C, and keep desiccated.
