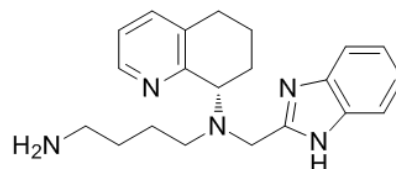


Product Name : AMD-070
Cat. No. : PC-45823
CAS No. : 558447-26-0
Molecular Formula : C₂₁H₂₇N₅
Molecular Weight : 349.4726
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

Mavoxiafor (AMD-070, AMD-11070) is a potent and selective antagonist of **CXCR4** with IC₅₀ of 13 nM in a CXCR4 125I-SDF inhibition binding assay.

AMD-070 displays no significant activity (IC₅₀>10 μM) for a series of other closely GPCRs (CCR1, CCR2b, CCR4, CCR5, CXCR1, and CXCR2).

AMD-070 inhibits the replication of T-tropic HIV-1 (NL4.3 strain) in MT-4 cells and PBMCs with IC₅₀ of 2 nM and 26 nM, respectively, with noncytotoxic to cells (>23 μM).

AMD-070 exhibits good PK profiles and excellent oral bioavailability.

AMD-070 also inhibits CXCR4/SDF-1-mediated events in ALL cancer cells and transplant models.

References

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Stone ND, et al. *Antimicrob Agents Chemother.* 2007 Jul;51(7):2351-8.

Parameswaran R, et al. *Leukemia.* 2011 Aug;25(8):1314-23.

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

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