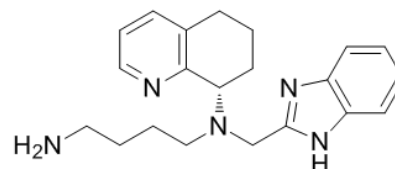


**Product Name** : AMD-070  
**Cat. No.** : PC-45823  
**CAS No.** : 558447-26-0  
**Molecular Formula** : C<sub>21</sub>H<sub>27</sub>N<sub>5</sub>  
**Molecular Weight** : 349.4726  
**Target** : Chemokine Receptor (CCR and CXCR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Mavoxifaor (AMD-070, AMD-11070) is a potent and selective antagonist of **CXCR4** with IC<sub>50</sub> of 13 nM in a CXCR4 125I-SDF inhibition binding assay.

AMD-070 displays no significant activity (IC<sub>50</sub>>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 IC<sub>50</sub> 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

Skerlj RT, et al. *J Med Chem.* 2010 Apr 22;53(8):3376-88.

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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