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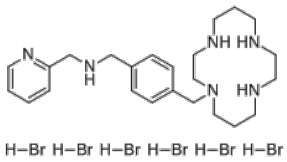
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AMD3465
Cat. No.	:	PC-49202
CAS No.	:	185991-07-5
Molecular Formula	:	$C_{24}H_{44}Br_6N_6$
Molecular Weight	:	896.082
Target	:	Chemokine Receptor (CCR and CXCR)
Solubility	:	10 mM in DMSO



Biological Activity

AMD3465 (AMD 3465) is a potent, selective monomacrocyclic CXCR4 antagonist with IC50 of 0.75 nM for inhibition of 12G5 mAb binding to CXCR4, dose-dependently inhibits CXCL12 binding in SupT1 cells with IC50 of 18 nM.
AMD3465 inhibits CXCL12-induced calcium signaling in SupT1 cells with IC50 of 17 nM, AMD3465 is >10-fold more potent than AMD3100 in inhibiting calcium mobilization with IC50 of 4 and 58 nM, respectively.
AMD3465 completely failed to block the intracellular calcium fluxes elicited by the CCR5 ligands RANTES, LD78b and MIP-1b in U87.CD4.CCR5 cells.
AMD3465 dose-dependently inhibits intracellular calcium signaling, chemotaxis, CXCR4 endocytosis and mitogen-activated protein kinase phosphorylation induced by CXCL12.
AMD3465 is highly potent against X4 HIV strains (IC50=1-10 nM).
AMD3465 specifically blocks the interaction of HIV gp120 with CXCR4.

References

Hatse S, et al. Biochem Pharmacol. 2005 Sep 1;70(5):752-61.

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

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