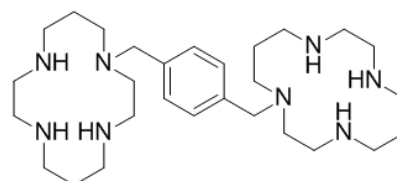


Product Name : AMD3100
Cat. No. : PC-42164
CAS No. : 110078-46-1
Molecular Formula : C₂₈H₅₄N₈
Molecular Weight : 502.782
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



Biological Activity

Plerixafor (AMD3100) is a potent, selective **CXCR4** inhibitor (IC₅₀=44 nM) that inhibits the replication of various HIV-1 and HIV-2 strains in various cell lines with EC₅₀ of 10ng/ml.

Plerixafor (AMD3100) can produce mesenchymal stem cells and endothelial progenitor cells in mice in combination with VEGF.

Plerixafor (AMD3100) also is an allosteric agonist of CXCR7.

References

Zabel BA, et al. *J Immunol.* 2009, 183(5), 3204-3211.

De Clercq E, et al. *Antimicrob Agents Chemother.* 1994 Apr;38(4):668-74.

Pitchford SC, et al. *Cell Stem Cell.* 2009 Jan 9;4(1):62-72.

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

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