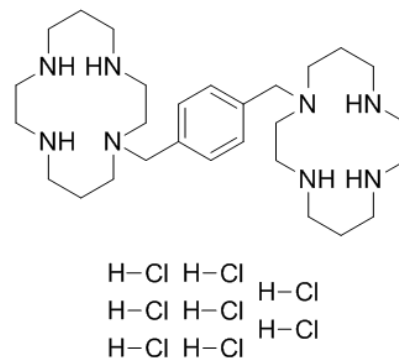


Product Name : Plerixafor octahydrochloride
Cat. No. : PC-45905
CAS No. : 155148-31-5
Molecular Formula : C₂₈H₆₂Cl₈N₈
Molecular Weight : 794.4695
Target : Chemokine Receptor (CCR and CXCR)
Solubility : H₂O: ≥ 42 mg/mL



Biological Activity

Plerixafor octahydrochloride (JM-3100, AMD3100, SID-791) 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 10 ng/ml.

Plerixafor octahydrochloride (JM-3100, AMD3100) can produce mesenchymal stem cells and endothelial progenitor cells in mice in combination with VEGF.

Plerixafor octahydrochloride (JM-3100, 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!

E-mail: tech@probechem.com