

Product Name : Plerixafor octahydrochloride

Synonyms : AMD-3100 octahydrochloride; JM-3100 octahydrochloride; SID-791 octahydrochloride

Cat No. : M12205

CAS Number : 155148-31-5

Molecular Formula : C₂₈H₆₂Cl₈N₈

Formula Weight : 794.47

Chemical Name : 1,4,8,11-Tetraazacyclotetradecane, 1,1'-[1,4-phenylenebis(methylene)]bis-, hydrochloride (1:8)

Description : Plerixafor octahydrochloride (JM-3100, AMD-3100, 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 10ng/ml; can produce mesenchymal stem cells and endothelial progenitor cells in mice in combination with VEGF; also is an allosteric agonist of CXCR7. Multiple Sclerosis Preclinical

Pathway : GPCR/G Protein

Target : Chemokine Receptor

Receptor : CXCL12; CXCR4

Solubility : H₂O: ≥ 42 mg/mL

SMILES : C1CNCCNCCCN(CCN1)CC2=CC=C(C=C2)CN3CCCNCNCCCNC3.Cl.Cl.Cl.Cl.Cl.Cl.Cl.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Zabel BA, et al. J Immunol. 2009, 183(5), 3204-3211. | 2. De Clercq E, et al. Antimicrob Agents Chemother. 1994 Apr;38(4):668-74. | 3. Pitchford SC, et al. Cell Stem Cell. 2009 Jan 9;4(1):62-72.

