

# AMD3100 octahydrochloride, CXCR4 antagonist ab120718

**23 References**   **2 图像**

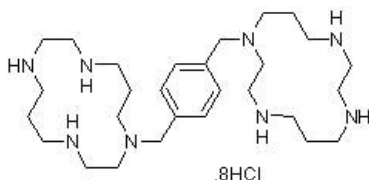
### 概述

产品名称	AMD3100 octahydrochloride, CXCR4拮抗剂
描述	Highly selective CXCR4拮抗剂
生物学描述	<p>Plerixafor (hydrochloride) is a macrocyclic compound that acts as an irreversible antagonist against the binding of CXCR4 with its ligand, SDF-1 (CXCL12).</p> <p>It suppresses infection by HIV with an IC<sub>50</sub> value of 1-10 ng/ml with selectivity toward CXCR4-tropic virus. Plerixafor mobilizes hematopoietic stem and progenitor cells for transplant better than G-CSF alone. It also increases T-cell trafficking in the blood and spleen as well as the central nervous system. Plerixafor regulates the growth of primary and metastatic breast cancer cells and inhibits dissemination of ovarian carcinoma cells.</p>

纯度 > 99%

CAS编号 155148-31-5

### 化学结构



### 性能

化学名称	1,1'-[1,4-Phenylenebis(methylene)]bis-1,4,8,11-tetraazacyclotetradecane octahydrochloride
分子量	794.48
分子式	C <sub>28</sub> H <sub>54</sub> N <sub>8</sub> ·8HCl
PubChem识别号	65014
存放说明	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in PBS, pH 7.2, at 10 mg/ml.
处理	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and

prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

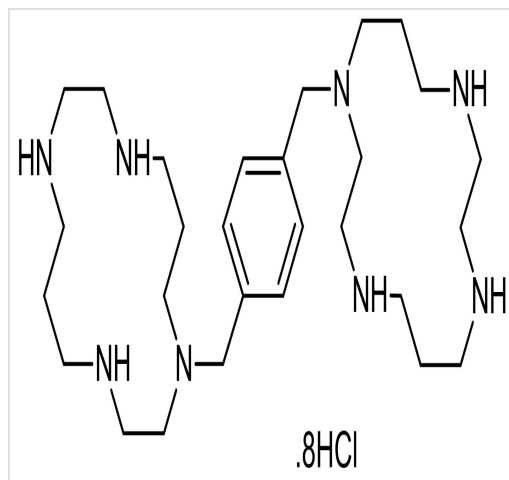
## SMILES

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## 来源

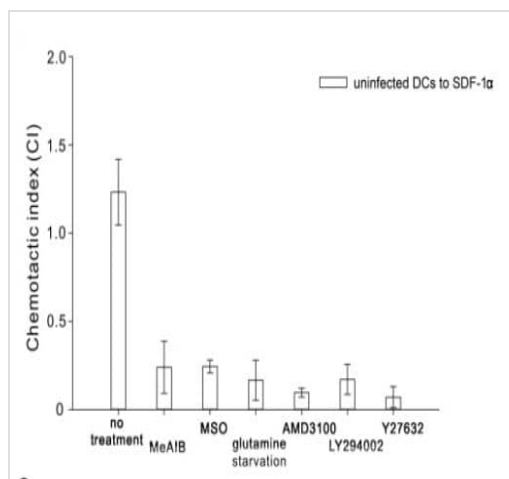
Synthetic

## 图片



2D chemical structure image of ab120718, AMD3100 octahydrochloride, CXCR4 antagonist

Chemical Structure - AMD3100 octahydrochloride, CXCR4 antagonist (ab120718)



Cellular activation - AMD3100 octahydrochloride, CXCR4 antagonist (ab120718)

Image from Lee IP, et al. Plos One, 9(10), e109803. Fig 3B; doi: 10.1371/journal.pone.0109803

Uninfected control DCs were treated with MeAIB, MSO, inhibitors of CXCR4 (AMD3100), PI3K (LY294002, [ab120243](#)) or Rho kinase (Y27632, [ab120129](#)), or Gln starvation for 2 hours before assessing migration to 100 ng/ml SDF-1  $\alpha$ . Chemotactic index (CI) is defined as the fold increase in the number of migrating DCs to SDF-1  $\alpha$  over the spontaneous migration. One-way ANOVA reveals an effect of pharmacological treatments on the SDF-1  $\alpha$ -induced migration ( $F(6,44) = 6.700$ ,  $P < 0.001$ ). Asterisks indicate  $P < 0.05$  (Dunnett's post hoc).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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