abcam

Product datasheet

AMD3100 octahydrochloride, CXCR4 antagonist ab120718

23 References 画像数 2

製品の概要

製品名 AMD3100 octahydrochloride, CXCR4 antagonist

製品の詳細 Highly selective CXCR4 antagonist

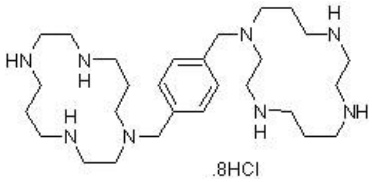
生理活性の詳細 Plerixafor (hydrochloride) is a macrocyclic compound that acts as an irreversible antagonist against the binding of CXCR4 with its ligand, SDF-1 (CXCL12).

It suppresses infection by HIV with an IC_{50} 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 metastic breast cancer cells and inhibits dissemination of ovarian carcinoma cells.

精製度 > 99%

CAS 番号 155148-31-5

構造式



製品の特性

体系名 1,1'-[1,4-Phenylenebis(methylene)]bis-1,4,8,11-tetraazacyclotetradecane octahydrochloride

分子量 794.48

分子式 $C_{28}H_{54}N_8.8HCl$

PubChem 登録番号 65014

保存方法 Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

溶解性 Soluble in PBS, pH 7.2, at 10 mg/ml.

使用に関する注意 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

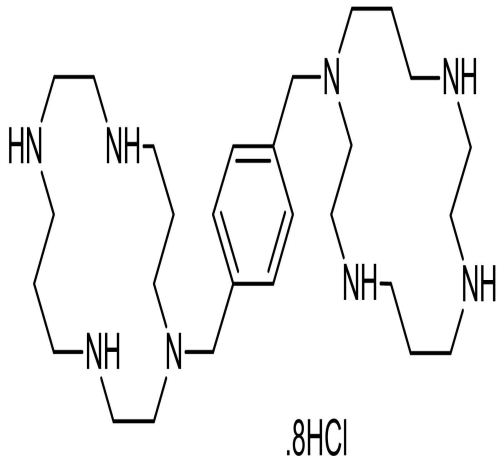
prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

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

SMILES 線形表記 C1CNCCNCCCN(CCNC1)CC2=CC=C(C=C2)CN3CCCNCCNCCCNCC3.Cl.Cl.Cl.Cl.Cl.Cl.Cl.Cl

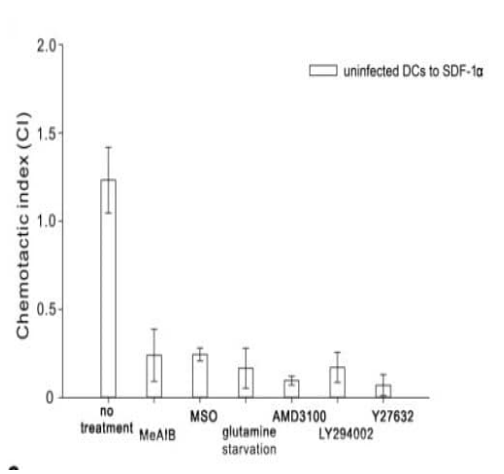
由来 Synthetic

画像



Chemical Structure - AMD3100 octahydrochloride, CXCR4 antagonist (ab120718)

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



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 α. Chemotactic index (CI) is defined as the fold increase in the number of migrating DCs to SDF-1 α over the spontaneous migration. One-way ANOVA reveals an effect of pharmacological treatments on the SDF-1 α-induced migration ($F(6,44) = 6.700$, $P<0.001$). Asterisks indicate $P<0.05$ (Dunnett's post hoc).

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.co.jp/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team