Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Mavorixafor

Catalog No: tcsc0352

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
558447-26-0

Formula:
$C_{21}H_{27}N_5$

Pathway:
GPCR/G Protein;Immunology/Inflammation;Anti-infection

Target:
CXCR;CXCR;HIV

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
AMD-070

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Observed Molecular Weight:
349.47

Product Description

Mavorixafor (AMD-070) is a potent, selective and orally available **CXCR4** antagonist, with an **IC_{50}** value of 13 nM against CXCR4 ^{125}I-SDF binding, and also inhibits the replication of T-tropic HIV-1 (NL4.3 strain) in MT-4 cells and PBMCs with an **IC_{50}** of 1 and 9 nM, respectively.

IC50 & Target: IC50: 13 nM (^{125}I-SDF-CXCR4), 1 nM (HIV-1 (NL4.3 strain), in MT-4 cells), 9 nM (HIV-1 (NL4.3 strain), in PBMCs)[1]

In Vitro: Mavorixafor (AMD-070) is a potent and orally available CXCR4 antagonist, with an IC_{50} value of 13 nM against CXCR4 ^{125}I-SDF binding, and also inhibits the replication of T-tropic HIV-1 (NL4.3 strain) in MT-4 cells and PBMCs with an IC_{50} of 1 and 9 nM, respectively. Mavorixafor (AMD-070) shows no effect on other chemokine receptors (CCR1, CCR2b, CCR4, CCR5, CXCR1, and CXCR2) [1]. Mavorixafor (AMD-070) (6.6 μM) significantly suppresses the anchorage-dependent growth, the migration and matrigel invasion of the B88-SDF-1 cells[2].

In Vivo: Mavorixafor (AMD-070) (2 mg/kg, p.o.) significantly reduces the number of metastatic lung nodules in mice, and lowers the expression of human Alu DNA in mice, without body weight loss[2].