

## Mavorixafor trihydrochloride

## Chemical Properties

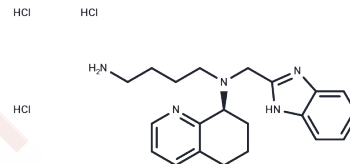
CAS No. : 2309699-17-8

Formula: C<sub>21</sub>H<sub>30</sub>Cl<sub>3</sub>N<sub>5</sub>

Molecular Weight: 458.86

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Mavorixafor trihydrochloride is a selective and orally available CXCR4 antagonist (IC <sub>50</sub> : 13 nM against CXCR4 125I-SDF binding) and also inhibits the replication of T-tropic HIV-1 (NL4.3 strain) in MT-4 cells and PBMCs (IC <sub>50</sub> s: 1 and 9 nM).
Targets(IC <sub>50</sub> )	HIV Protease,CXCR
In vitro	Mavorixafor (AMD-070) shows no effect on other chemokine receptors (CCR1, CCR2b, CCR4, CCR5, CXCR1, and CXCR2) [1]. Mavorixafor (6.6 μM) significantly suppresses the anchorage-dependent growth, the migration and matrigel invasion of the B88-SDF-1 cells [2].
In vivo	Mavorixafor, at a dosage of 2 mg/kg administered orally, substantially decreases the count of metastatic lung nodules in mice while concurrently reducing the expression of human Alu DNA, all without causing loss in body weight [2].

## Solubility Information

Solubility	DMSO: 6 mg/mL (13.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.1793 mL	10.8966 mL	21.7931 mL
5 mM	0.4359 mL	2.1793 mL	4.3586 mL
10 mM	0.2179 mL	1.0897 mL	2.1793 mL
50 mM	0.0436 mL	0.2179 mL	0.4359 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Skerlj RT, et al. Discovery of novel small molecule orally bioavailable C-X-C chemokine receptor 4 antagonists that are potent inhibitors of T-tropic (X4) HIV-1 replication. *J Med Chem.* 2010 Apr 22;53(8):3376-88.

Uchida D, et al. Effect of a novel orally bioavailable CXCR4 inhibitor, AMD070, on the metastasis of oral cancer cells. *Oncol Rep.* 2018 Jul;40(1):303-308.

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