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

Vicriviroc (maleate)

Catalog No: tcsc1019

Available Sizes

Size: 5mg

Specifications

CAS No:
599179-03-0

Formula:
$C_{32}H_{42}F_3N_5O_6$

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

Target:
CCR;CCR;HIV

Purity / Grade:
>98%

Solubility:
H2O : 25 mg/mL (38.48 mM; Need ultrasonic and warming); DMSO : 50 mg/mL (76.96 mM; Need ultrasonic)

Alternative Names:
SCH-417690 (maleate);SCH-D (maleate)

Observed Molecular Weight:
649.7

Product Description

Vicriviroc maleate is a potent, selective, oral bioavailable and CNS penetrated antagonist of **CCR5**, with a $\mathbf{K_i}$ of 2.5 nM, and also inhibits HIV-1 in PBMC cells, with $\mathbf{IC_{90}}$s of 3.3 nM (JrFL), 2.8 nM (ADA-M), 1.8 nM (301657), 4.9 nM (JV1083) and 10 nM (RU 570).

IC50 & Target: Ki: 2.5 nM (CCR5)[1]

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IC90: 3.3 nM (HIV-1 JrFL, in PBMC cells), 2.8 nM (HIV-1 ADA-M, in PBMC cells), 1.8 nM (HIV-1 301657, in PBMC cells), 4.9 nM (HIV-1 JV1083, in PBMC cells) and 10 nM (HIV-1 RU 570, in PBMC cells)[1]

In Vitro: Vicriviroc (Sch-417690/Sch-D) is a potent, selective and oral bioavailable inhibitor of CCR5, with a K_i of 2.5 nM, and also inhibits HIV-1 in PBMC cells, with IC_{90}s of 3.3 (JrFL), 2.8 (ADA-M), 1.8 (301657), 4.9 (JV1083) and 10 nM (RU 570). In addition, Vicriviroc shows a mean IC_{50} and IC_{90} of 0.45 nM and 4 nM for a panel of HIV isolates, and has weak activity against hERG activity (IC_{50}, 5.8 μM)[1]. Vicriviroc inhibits chemotactic response to MIP-1α with IC_{50} values below 1 nM, and suppresses RANTES-induced signaling with a mean IC_{50} of 4.2 ± 1.3 nM. Vicriviroc potently suppresses all the viral isolates tested, with geometric mean EC_{50}s of 0.04-2.3 nM and IC_{90}s of 0.45-18 nM[2].

In Vivo: Vicriviroc (10 mg/kg) has good oral availablity in rats and monkeys, with no acute CNS or GI effects in rats[1].